CA125 GENE AND ITS USE FOR DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS

BACKGROUND OF THE INVENTION

[0001] This application is a continuation-in-part of U.S. Provisional Application Serial No. 60/284,175 filed April 17, 2001, U.S. Provisional Application Serial No. 60/299,380 filed June 19, 2001, U.S. Non-Provisional Application No. 09/965,738 filed September 27, 2001, and U.S. Provisional Application Serial No. 60/345,180. This application is a continuation-in-part of provisional application 60/427,045 (filed November 15, 2002), all of which are hereby specifically incorporated by reference. Applicants hereby specifically claims the benefit of these prior filed applications under 35 U.S.C. § 119(e), and 120.

[0002] The present invention relates generally to the cloning, identification, and expression of the CA125 gene's glycosylated amino terminal domain, the multiple repeat domain, and the carboxy terminal domain *in vitro* and, more specifically, to the use of recombinant CA125 with epitope binding sites for diagnostic and therapeutic purposes. Additionally, the genomic DNA, a molecule encoding a 5' upstream region of CA125 and a genomic DNA sequence for the amino terminal, extra cellular repeats and carboxy terminal of CA125 has been determined.

[0003] CA125 is an antigenic determinant located on the surface of ovarian carcinoma cells with essentially no expression in normal adult ovarian tissue. Elevated in the sera of patients with ovarian adenocarcinoma, CA125 has played a critical role for more than 15 years in the management of these patients relative to their response to therapy and also as an indicator of recurrent disease.

[0004] It is well established that CA125 is not uniquely expressed in ovarian carcinoma, but is also found in both normal secretory tissues and other carcinomas (i.e., pancreas, liver, colon) [Hardardottir H *et al.*, Distribution of CA125 in embryonic tissue and adult derivatives of the fetal periderm, *Am J Obstet. Gynecol.* 163;6(1):1925-1931 (1990); Zurawski VR *et al.*, Tissue distribution and characteristics of the CA125 antigen, *Cancer Rev.* 11-12:102-108 (1988); and O'Brien TJ *et al.*, CA125 antigen in human amniotic fluid and fetal membranes, *Am J Obstet*

Gynecol. 155:50-55, (1986); Nap M *et al.*, Immunohistochemical characterization of 22 monoclonal antibodies against the CA125 antigen: 2nd report from the ISOBM TD-1 workshop, Tumor Biology 17:325-332 (1996)]. Notwithstanding, CA125 correlates directly with the disease status of affected patients (i.e., progression, regression, and no change), and has become the "gold standard" for monitoring patients with ovarian carcinoma [Bast RC *et al.*, A radioimmunoassay using a monoclonal antibody to monitor the course of epithelial ovarian cancer, *N Engl J Med.* 309:883-887 (1983); and Bon GC *et al.*, Serum tumor marker immunoassays in gynecologic oncology: Establishment of reference values, *Am J Obstet. Gynecol.* 174:107-114 (1996)]. CA125 is especially useful in post-menopausal patients where endometrial tissue has become atrophic and, as a result, is not a major source of normal circulating CA125.

[0005] During the mid 1980's, the inventor of the present invention and others developed M11, a monoclonal antibody to CA125. M11 binds to a dominant epitope on the repeat structure of the CA125 molecule [O'Brien TJ *et al.*, New monoclonal antibodies identify the glycoprotein carrying the CA125 epitope, *Am J Obstet Gynecol* 165:1857-64 (1991)]. More recently, the inventor and others developed a purification and stabilization scheme for CA125, which allows for the accumulation of highly purified high molecular weight CA125 [O'Brien TJ *et al.*, More than 15 years of CA125: What is known about the antigen, its structure and its function, *Int J Biological Markers* 13(4):188-195 (1998)].

[0006] Considerable progress has been made over the years to further characterize the CA125 molecule, its structure and its function. The CA125 molecule is a high molecular weight glycoprotein with a predominance of O-linked sugar side chains. The native molecule exists as a very large complex (~2-5 million daltons). The complex appears to be composed of an epitope containing CA125 molecule and binding proteins which carry no CA125 epitopes. The CA125 molecule is heterogenous in both size and charge, most likely due to continuous deglycosylation of the side chains during its life-span in bodily fluids. The core CA125 subunit is in excess of 200,000 daltons, and retains the capacity to bind both OC125 and M11 class antibodies.

[0007] Despite the advances in detection and quantitation of serum tumor markers like CA125, the majority of ovarian cancer patients are still diagnosed at an advanced stage of the disease--Stage III or IV. Further, the management of patients' responses to treatment and the detection of disease recurrence remain major problems. There, thus, remains a need to significantly improve and standardize current CA125 assay systems. Further, the development of an early indicator of risk of ovarian cancer will provide a useful tool for early diagnosis and improved prognosis.

SUMMARY OF THE INVENTION

[0008] Thus, it is an object of the present invention to provide a recombinant CA125 cDNA molecule which can be introduced into animals or human cells to achieve transcription or expression of the cDNA. The utility of knowing the DNA sequence of a specific gene is that a recombinant protein can be produced which can be used as an easily renewable source of that gene or a portion of the gene. Producing and purifying recombinant protein is easier and can produce greater quantities of protein than purifying native protein from patients. The recombinant protein can then be used to produce antibodies to the gene, both polyclonal and monoclonal. The recombinant protein can also be used as a positive control in test kits and experiments.

[0009] The genomic sequence for CA125 and a 5' upstream region has been determined. A DNA sequence showing the 5' upstream region and the amino terminal portion of the CA125 molecule is set out in Table 1 and SEQ ID NO: 1. The extracellular amino terminal domain is made of exons: Exon 1 from 2205-11679; Exon 2 from 13464-13570; Exon 3 from 16177-34419; Exon 4 from 34575-38024; Exon 5 from 38689-38800; Exon 6 from 40578-45257; Exon 7 from 47360-47395; Exon 8 from 52407-52442; Exon 9 from 52686-52744 as set out in SEQ ID NO: 1. A DNA sequence showing the extracellular repeat portion of the CA125 molecule is set out in Table 2 and SEQ ID NO: 2. The genomic repeats are made of exons: Exon R1 from 1-130; Exon R2 from 442-510; Exon R3 from 5479-5652; Exon R4 from 6301-6334; Exon R5 from 6593-6657; Exon R1 from 7558-7683; Exon R2 from 8216-8284; Exon R3 from 8877-

9050; Exon R4 from 9380-9413; Exon R5 from 9675-9739; Exon R1 from 10201-10291; Exon R2 from 10524-10592; Exon R3 from 11200-11373; Exon R4 from 11722-11755; Exon R5 from 12016-12036; Exon R1 from 12169-12295; Exon R2 from 12532-12600; Exon R3 from 13219-13392; Exon R4 from 13723-13756; Exon R5 from 14016-14077; Exon R1 from 15001-15126; Exon R2 from 15367-15435; Exon R1 from 15648-15773; Exon R2 from 16002-16070; Exon R3 from 16653-16826; Exon R4 from 17158-17191; Exon R5 from 17453-17517; Exon R1 from 18532-18657; Exon R2 from 18888-18956; Exon R3 from 19633-19806; Exon R4 from 20141-20176; Exon R5 from 20387-20449; Exon R1 from 21609-21731; Exon R2 from 21940-22008; Exon R3 from 22605-22778; Exon R4 from 23109-23142; Exon R1 from 29046-29168; Exon R2 from 29266-29334; Exon R3 from 33917-34090; Exon R4 from 36702-36734; Exon R5 from 38270-38320;Exon R1 from 39104-39224; Exon R2 from 39315-39383; Exon R3 from 39532-39705; Exon R4 from 41862-41992. A DNA sequence showing the carboxy terminal domain of the CA125 molecule is set out in Table 3 and SEQ ID NO: 3. The carboxy terminal portion is made of exons: Exon C1 from 1-66; Exon C2 from 1802-1947; Exon C3 from 4198-4350; Exon C4 from 4679-4747; Exon C5 from 6811-6978; Exon C6 from 11232-11270; Exon C7 from 11594-11677; Exon C8 from 14095-14187 as set out in SEQ ID NO: 3. A full length cDNA molecule for CA125 is set out in Table 4 and SEQ ID NO: 4. A CA125 protein is set out in Table 5 and SEQ ID NO: 5.

[0010] Now that the DNA sequence which encodes CA125 has been discovered known synthetic methods can be employed to prepare DNA molecules containing portions of the sequence. Conventional cloning vehicles, such as plasmids, viruses, or bacteria phages can be modified using known methods so as to produce novel cloning vehicles which contain cDNA encoding, CA125, analogs or mutants thereof. Similarly, such cloning vehicles can be modified or engineered so that they contain DNA molecules from Table 4 and SEQ ID NO: 4 or segments substantially similar thereto. The DNA molecule inserted may be made by various methods including enzymatic or chemical synthesis.

[0011] The CA125 gene has been cloned and multiple repeat sequences as well as the glycosylated amino terminal and the carboxy terminus have been identified. CA125 requires a

transcript of more than 35,000 bases and occupies approximately 150,000 bp on chromosome 19p 13.2. The CA125 molecule comprises three major domains: an extracellular amino terminal domain (Domain 1); a large multiple repeat domain (Domain 2); and a carboxy terminal domain (Domain 3) which includes a transmembrane anchor with a short cytoplasmic domain. The amino terminal domain is assembled by combining five genomic exons, four very short amino terminal sequences and one extraordinarily large exon. This domain is dominated by its capacity for O-glycosylation and its resultant richness in serine and threonine residues. Additionally, an amino terminal extension is present, which comprises four genomic exons. Analysis of the amino terminal extension revealed that its amino acid composition is consistent with the amino acid composition of the amino terminal domain.

[0012] Perhaps even more significantly, the multiple repeat domains of CA125 or other domains could also be used for the development of a potential vaccine for patients with ovarian cancer. In order to induce cellular and humoral immunity in humans to CA125, murine antibodies specific for CA125 were utilized in anticipation of patient production of anti-ideotypic antibodies, thus indirectly allowing the induction of an immune response to the CA125 molecule. With the availability of recombinant CA125, especially domains which encompass epitope binding sites for known murine antibodies, it will be feasible to more directly stimulate patients' immune systems to CA125 and, as a result, extend the life of ovarian carcinoma patients.

[0013] The recombinant CA125 of the present invention may also be used to develop therapeutic targets. Molecules like CA125, which are expressed on the surface of tumor cells, provide potential targets for immune stimulation, drug delivery, biological modifier delivery or any agent which can be specifically delivered to ultimately kill the tumor cells. Humanized or human antibodies to CA125 epitopes could be used to deliver all drug or toxic agents including radioactive agents to mediate direct killing of tumor cells. Natural ligands having a natural binding affinity for domains on the CA125 molecule could also be utilized to deliver therapeutic agents to tumor cells.

[0014] CA125 expression may further provide a survival or metastatic advantage to ovarian tumor cells. Antisense oligonucleotides derived from the CA125 repeat sequences could be used to down-regulate the expression of CA125. Further, antisense therapy could be used in association with a tumor cell delivery system of the type described above.

[0015] Recombinant domains of the CA125 molecule also have the potential to identify small molecules, which bind to individual domains of the CA125 molecule. These small molecules could also be used as delivery agents or as biological modifiers.

[0016] In another aspect of the present invention, an isolated nucleic acid of the CA125 gene is disclosed, which comprises a nucleotide sequence selected from the group consisting of: (a) the nucleotide sequences set forth in SEQ ID NOS: 1, 2, 3 and 4; (b) a nucleotide sequence having at least 70% sequence identity to any one of the sequences in (a); (c) a degenerate variant of any one of (a) to (b); and (d) a fragment of any one of (a) to (c).

[0017] In another aspect of the present invention, an isolated nucleic acid of the CA125 gene, comprising a sequence that encodes a polypeptide with the amino acid sequence selected from the group consisting of: (a) the amino acid sequences set forth in SEQ ID NO: 5; (b) an amino acid sequence having at least 50% sequence identity to any one of the sequences in (a); (c) a conservative variant of any one of (a) to (b); and (d) a fragment of any one of (a) to (c).

[0018] The vector may be a cloning vector, a shuttle vector, or an expression vector. A cultured cell comprising the vector is also contemplated.

[0019] More specifically, this invention relates to a purified antibody that selectively binds to an epitope in the CA125 protein of SEQ ID NO: 5. Similarly, the purified antibody selectively binds to an amino acid sequence having at least 50% sequence identity to said sequence; the purified antibody selectively binds to an amino acid sequence having at least 60% sequence identity to said sequence; the purified antibody selectively binds to an amino acid sequence having at least 70% sequence identity to said sequence; the purified antibody selectively binds to an amino acid sequence having at least 80% sequence identity to said sequence; and the purified

antibody selectively binds to an amino acid sequence having at least 90% sequence identity to said sequence. Additionally, purified antibody can be a conservative variant of the amino acid sequence set forth in SEQ ID NO: 5 or a fragment thereof.

DETAILED DESCRIPTION OF THE INVENTION

[0020] In accordance with the present invention, conventional molecular biology, microbiology, and recombinant DNA techniques may be used that will be apparent to those skilled in the relevant art. Such techniques are explained fully in the literature (see, e.g., Maniatis, Fritsch & Sambrook, "Molecular Cloning: A Laboratory Manual (1982); "DNA Cloning: A Practical Approach," Volumes I and II (D. N. Glover ed. 1985); "Oligonucleotide Synthesis" (M. J. Gait ed. 1984); "Nucleic Acid Hybridization" (B. D. Hames & S. J. Higgins eds. (1985)); "Transcription and Translation" (B. D. Hames & S. J. Higgins eds. (1984)); "Animal Cell Culture" (R. I. Freshney, ed. (1986)); "Immobilized Cells And Enzymes" (IRL Press, (1986)); and B. Perbal, "A Practical Guide To Molecular Cloning" (1984)).

[0021] Therefore, if appearing herein, the following terms shall have the definitions set out below.

[0022] A "vector" is a replicon, such as plasmid, phage or cosmid, to which another DNA segment may be attached so as to bring about the replication of the attached segment.

[0023] A "DNA molecule" refers to the polymeric form of deoxyribonucleotides (adenine, guanine, thymine, or cytosine) in either single stranded form, or a double-stranded helix. This term refers only to the primary and secondary structure of the molecule, and does not limit it to any particular tertiary forms. Thus, this term includes double-stranded DNA found, inter alia, in linear DNA molecules (e.g., restriction fragments), viruses, plasmids, and chromosomes.

[0024] As used herein, the term "gene" shall mean a region of DNA encoding a polypeptide chain.

[0025] "Messenger RNA" or "mRNA" shall mean an RNA molecule that encodes for one or more polypeptides.

[0026] "DNA polymerase" shall mean an enzyme which catalyzes the polymerization of deoxyribonucleotide triphosphates to make DNA chains using a DNA template.

[0027] "Reverse transcriptase" shall mean an enzyme which catalyzes the polymerization of deoxy- or ribonucleotide triphosphates to make DNA or RNA chains using an RNA or DNA template.

[0028] "Complementary DNA" or "cDNA" shall mean the DNA molecule synthesized by polymerization of deoxyribonucleotides by an enzyme with reverse transcriptase activity.

[0029] An "isolated nucleic acid" is a nucleic acid the structure of which is not identical to that of any naturally occurring nucleic acid or to that of any fragment of a naturally occurring genomic nucleic acid spanning more than three separate genes. The term therefore covers, for example, (a) a DNA which has the sequence of part of a naturally occurring genomic DNA molecule but is not flanked by both of the coding sequences that flank that part of the molecule in the genome of the organism in which it naturally occurs; (b) a nucleic acid incorporated into a vector or into the genomic DNA of a prokaryote or eukaryote in a manner such that the resulting molecule is not identical to any naturally occurring vector or genomic DNA; (c) a separate molecule such as a cDNA, a genomic fragment, a fragment produced by polymerase chain reaction (PCR), or a restriction fragment; and (d) a recombinant nucleotide sequence that is part of a hybrid gene, i.e., a gene encoding a fusion protein.

[0030] "Oligonucleotide", as used herein in referring to the probes or primers of the present invention, is defined as a molecule comprised of two or more deoxy- or ribonucleotides, preferably more than ten. Its exact size will depend upon many factors which, in turn, depend upon the ultimate function and use of the oligonucleotide.

[0031] "DNA fragment" includes polynucleotides and/or oligonucleotides and refers to a plurality of joined nucleotide units formed from naturally-occurring bases and cyclofuranosyl

groups joined by native phosphodiester bonds. This term effectively refers to naturally-occurring species or synthetic species formed from naturally-occurring subunits. "DNA fragment" also refers to purine and pyrimidine groups and moieties which function similarly but which have non naturally-occurring portions. Thus, DNA fragments may have altered sugar moieties or inter-sugar linkages. Exemplary among these are the phosphorothioate and other sulfur containing species. They may also contain altered base units or other modifications, provided that biological activity is retained. DNA fragments may also include species which include at least some modified base forms. Thus, purines and pyrimidines other than those normally found in nature may be so employed. Similarly, modifications on the cyclofuranose portions of the nucleotide subunits may also occur as long as biological function is not eliminated by such modifications.

[0032] "Primer" shall refer to an oligonucleotide, whether occurring naturally or produced synthetically, which is capable of acting as a point of initiation of synthesis when placed under conditions in which synthesis of a primer extension product, which is complementary to a nucleic acid strand, is induced, i.e., in the presence of nucleotides and an inducing agent such as a DNA polymerase and at a suitable temperature and pH. The primer may be either single-stranded or double-stranded and must be sufficiently long to prime the synthesis of the desired extension product in the presence of the inducing agent. The exact length of the primer will depend upon many factors, including temperature, the source of primer and the method used. For example, for diagnostic applications, depending on the complexity of the target sequence, the oligonucleotide primer typically contains 10-25 or more nucleotides, although it may contain fewer nucleotides.

[0033] The primers herein are selected to be "substantially" complementary to different strands of a particular target DNA sequence. This means that the primers must be sufficiently complementary to hybridize with their respective strands. Therefore, the primer sequence need not reflect the exact sequence of the template. For example, a non-complementary nucleotide fragment may be attached to the 5' end of the primer, with the remainder of the primer sequence being complementary to the strand. Alternatively, non-complementary bases or longer

sequences can be interspersed into the primer, provided that the primer sequence has sufficient complementarity with the sequence or hybridize therewith and thereby form the template for the synthesis of the extension product.

[0034] As used herein, the term "hybridization" refers generally to a technique wherein denatured RNA or DNA is combined with complementary nucleic acid sequence which is either free in solution or bound to a solid phase. As recognized by one skilled in the art, complete complementarity between the two nucleic acid sequences is not a pre-requisite for hybridization to occur. The technique is ubiquitous in molecular genetics and its use centers around the identification of particular DNA or RNA sequences within complex mixtures of nucleic acids.

[0035] As used herein, "restriction endonucleases" and "restriction enzymes" shall refer to bacterial enzymes which cut double-stranded DNA at or near a specific nucleotide sequence.

[0036] "Purified polypeptide" refers to any peptide generated from CA125 either by proteolytic cleavage or chemical cleavage.

[0037] "Degenerate variant" refers to any amino acid variation in the repeat sequence, which fulfills the homology exon structure and conserved sequences and is recognized by the M11, OC125 and ISOBM series of antibodies.

[0038] "Fragment" refers to any part of the CA125 molecule identified in a purification scheme.

[0039] "Conservative variant antibody" shall mean any antibody that fulfills the criteria of M11, OC125 or any of the ISOBM antibody series.

[0040] "Homology" refers to similarity based on identical base matches in alignment. When two sequences are identical there is a 100% homology, as base matches differ in alignment the homology between two sequences is reduced.

[0041] The CA125 gene has been cloned and multiple repeat sequences as well as the carboxy terminus have been identified. The genomic DNA for the CA125 gene is set out in SEQ

ID NO: 4. The CA125 molecule comprises three major domains: an extracellular amino terminal domain (Domain 1); a large multiple repeat domain (Domain 2); and a carboxy terminal domain (Domain 3) which includes a transmembrane anchor with a short cytoplasmic domain. The amino terminal domain is assembled by combining five genomic exons, four very short amino terminal sequences and one extraordinarily large exon. This domain is dominated by its capacity for O-glycosylation and its resultant richness in serine and threonine residues. Additionally, an amino terminal extension is present, which comprises four genomic exons. The amino acid composition of the amino terminal extension was found to be consistent with the amino acid composition of the amino terminal domain. The molecular structure is dominated by a repeat domain comprising 156 amino acid repeat units, which encompass the epitope binding sites. More than 60 repeat units have been identified, sequenced, and contiguously placed in the CA125 domain structure. The repeat units encompass an interactive disulfide bridged C-enclosure and the site of OC125 and M11 binding. The repeat sequences demonstrated 70-85% homology to each other. Expression of the repeats was demonstrated in *E. coli*. The CA125 molecule is anchored at its carboxy terminal through a transmembrane domain and a short cytoplasmic tail. The carboxy terminal also contains a proteolytic cleavage site approximately 50 amino acids upstream from the transmembrane domain, which allows for proteolytic cleavage and release of the CA125 molecule. Any one of the repeat domains has the potential for use as a new gold standard for detecting and monitoring the presence of the CA125 antigen. Further, the repeat domains or other domains, especially the c-terminal to the repeat domain also provide a basis for the development of a vaccine, which would be useful for the treatment of ovarian cancer and other carcinomas where CA125 is elevated.

[0042] The DNA sequences of the present invention can also be characterized as encoding the amino acid sequence equivalents of the amino acid sequence, equivalents, as used in this context, include peptides of substantially similar length and amino acid identity to those disclosed, but having conservative amino acid substitution at a non-critical residue position. A conservative amino acid substitution is a substitution in which an amino acid residue is replaced with an amino acid residue of differing identity, but whose R group can be characterized by

chemically similar. Four common categories include: polor but uncharged R groups; positively charged R groups; negatively charged R groups; and, hydrophobic R groups. A preferred conservative substitution involves the substitution of a second hydrophobic residue for a fir hydrophobic residue, the first and second hydrophobic residues differing primarily in the size of the R group. The hydrophobic residue would be predicted to be located internally in the folded pepetide structure and the mild pertubatim caused only by a change in the size of an R group at an internally located which would not alter the antigenecity of R protein. More specifically, two nucleic acid molecules are substantially equivalent if they have at least about 70% homology.

[0043] The isolated cDNA sequences (Table 4 and SEQ ID NO: 4) of the present invention can be inserted into an expression vector. Such vectors contain all necessary regulatory signals to promote the expression of a DNA sequence of interest. Expression vectors are typically either prokaryote or eukaryote specific. Expression vectors can be introduced into either prokaryote or eukaryote cells to produce CA125 proteins or portions thereof. The isolated cDNA sequence as shown in Table 4 was expressed to provide the CA125 molecule set out in Table 5 and SEQ ID NO: 5. The expressed CA125 is a polypeptide with the amino acid sequence set forth in SEQ ID NO: 5; an amino acid sequence having at least 50% sequence identity to the sequence, a conservative for variant or a fragment of any of the above. Two polypeptide sequences are substantially equivalent if there is at least 50% sequence homology and substantial similar physical characteristics. However, in practice, a portion of an isolated nucleic acid molecule set out in SEQ ID NO: 4 is expressed to obtain a fragment of the CA125 molecule. This fragment is then purified to obtain an isolated CA125 fragment.

[0044] In certain embodiments, "purified" refers to a polypeptide composition which has been subjected to fractionation to remove various nonprotein components such as other cellular components. Various techniques suitable for use in protein purification are known to those skilled in the relevant art. These techniques include, for example, precipitation with ammonium sulphate, PEG, antibodies and the like or by heat denaturation, followed by centrifugation; chromatography steps such as ion exchange, gel filtration, reverse phase, hydroxylapatite and affinity chromatography; isoelectric focusing; gel electrophoresis; and combination of such

techniques. Similarly, a "purification scheme" is a technique or system to remove various nonprotein components such as other cellular components from the expressed protein. Various techniques suitable for use in protein purification are known to those skilled in the relevant art. These techniques include, for example, precipitation with ammonium sulphate, PEG, antibodies and the like or by heat denaturation, followed by centrifugation; chromatography steps such as ion exchange, gel filtration, reverse phase, hydroxylapatite and affinity chromatography; isoelectric focusing; gel electrophoresis; and combination of such techniques.

[0045] The genomic DNA and a full-length cDNA sequence of human CA125 has been determined. Additionally, a nucleic acid molecule encoding a 5' upstream region of the CA125 gene has been determined. cDNA is expressed with the use of an expression vector. An expression vector is a carrying vector that has an inducer for expression built into the vector. Different vectors use different inducers. The cDNA is ligased into the expression vector using restriction digest sites designed in the vector. The cDNA must be ligased in the sense direction and in the correct reading frame for expression to occur. Once the cDNA is ligased into the expression vector, the construct is transformed into a cell. In the preferred embodiment, we use E-Coli bacteria, but the transformation can be done with yeast, mammalian cells, plants cells, etc. The transformed cells are then grown in culture and protein production is induced with the an inducing agent for the expression vector. In the preferred embodiment, we use the pQE-30 expression vector and induce with IPTG. Once induction has occurred, the cells are harvested and the protein is purified. It should be noted that some expression vectors add tags to the recombinant protein to aid in purification. For example, pQE-30 adds a His-Tag which binds to nickel to aid in purification. Once cells have been successfully transformed, a small aliquot can be frozen and stored for future use.

[0046] With a cDNA sequence, one skilled in the art has an easily renewable source of purified CA125. Portions of this cDNA sequence can be expressed to make CA125 polypeptides and these polypeptides can be used to make monoclonal antibodies. These monoclonal antibodies can be made by one skilled in the art to portions of the protein which heretofore do not have any monoclonal antibodies, such as the amino terminal sequence.

[0047] More specifically, the purified antibodies are made by the following process: the recombinant protein is injected into an animal (usually a mouse, but other animals can be used). The animal's B-lymphocytes produce antibodies to the protein. Each activated B lymphocyte forms a clone of cells in spleen or lymph nodes, with each cell of the clone producing identical antibody. These spleen cells are then harvested and fused with myeloma cells to produce hybridomas. These hybridomas are immortal and produce only one type of antibody. The hybridomas are selected from cells that did not fuse by selective media. The hybidomas can then be grown in large quantities to produce large quantities of monoclonal antibodies.

[0048] Therapeutic Targets: Molecules, which are expressed on the surface of tumor cells as CA125 is, offer potential targets for immune stimulation, drug delivery, biological modifier delivery or any agent which can be specifically delivered to ultimately kill the tumor cells. CA125 offers such potential as a target: 1) Antibodies to CA125 epitopes or newly described potential epitopes: Most especially humanized or human antibodies to CA125 which could directly activate the patients' immune system to attack and kill tumor cells. Antibodies could be used to deliver all drug or toxic agents including radioactive agents to mediate direct killing of tumor cells. 2) Natural ligands: Under normal circumstances, molecules are bound to the CA125 molecule e.g. a 50 k dalton protein which does not contain CA125 epitopes co-purifies with CA125. Such a molecule, which might have a natural binding affinity for domains on the CA125 molecule, could also be utilized to deliver therapeutic agents to tumor cells.

[0049] Anti-sense therapy: CA125 expression may provide a survival or metastatic advantage to ovarian tumor cells as such antisense oligonucleotide derived from the CA125 sequence could be used to down-regulate the expression of CA125. Antisense therapy could be used in association with a tumor cell delivery system such as described above.

[0050] Small Molecules: Recombinant domains of CA125 also offer the potential to identify small molecules which bind to individual domains of the molecule. Small molecules either from combinatorial chemical libraries or small peptides can also be used as delivery agents or as biological modifiers.

[0051] Transgenic Animals/Transformed: CA125 and genomic DNA can be used to develop transgenic animal models and can be used under low stringency conditions, to clone CA125 cDNAs and genomic DNAs of other animal species. The CA125 cDNA can be used to prepare stable transformants. The bacterial cells could be transformed with CA125 cDNA to include these genes.

Example 1

[0052] Expression of 6xHis-tagged CA125 repeat in E. coli: The open reading frame of the CA125 repeat was amplified by PCR with the 5' sense primer 1 (5'-ACCGGATCCATGGGCCACACAGAGCCTGGCCC-3') (SEQ ID NO: 6) and the 3' antisense primer 2 (5'-TGTAAGCTTAGGCAGGGAGGATGGAGTCC-3') (SEQ ID NO: 7). The open reading frame of the CA125 repeat constitutes a portion of the isolated nucleic acid molecule set out in SEQ ID NO: 4. PCR was performed in a reaction mixture consisting of ovarian tumor cDNA derived from 50 ng of mRNA, 5 pmol each of sense and antisense primers for the CA125 repeat, 0.2 mmol of dNTPs, and 0.625 U of Taq polymerase in 1x buffer in a final volume of 25 µl. This mixture was subjected to 1 minute of denaturation at 95°C followed by 30 cycles of PCR consisting of the following: denaturation for 30 seconds at 95°C, 30 seconds of annealing at 62°C, and 1 minute of extension at 72°C with an additional 7 minutes of extension on the last cycle. The product was electrophoresed through a 2% agarose gel for separation, the PCR product was purified and digested with the restriction enzymes BamHI and HindIII. This digested PCR product was ligated into the expression vector pQE-30, which had also been digested with BamHI and HindIII. The ligation reaction consisted of 1ul of 10x ligation buffer, 1ul of 10x bovine serum albumin (BSA), 1ul of T4 ligase enzyme, and 7ul of digested PCR product. The reaction went overnight at 15° C. This clone would allow for expression of recombinant amino-terminal 6xHis-tagged CA125 repeat. The construct was then transformed into JM109 E. coli cells. The transformation reaction consisted of 5ul of ligation reaction and 50ul of cells. The reaction was mixed gently and then incubated on ice for 30 minutes. The reaction was then heat shocked at 42° C for 45 seconds in a water bath before being returned to ice for 2 minutes. 500ul of LB broth media were added and the mixture was incubated at 37° C

for 1 hour. At the end of 1 hour the cells were spun down in a microfuge at 4,000 x g for 5 minutes and approximately 450ul of media was removed. The cells were resuspended in the remaining 100ul of media, transferred to a LAIX plate, and incubated overnight at 37° C. White colonies were picked from the plate and cultured in 5ml LB broth media to determine if the transformation was successful. Transformed E. coli were grown in 1L cultures to an OD_{600} of 1.5-2.0 at 37°C and were induced with IPTG (0.1 mM) for 4-6 hours at 25°C to produce recombinant protein. Whole E.coli lysate was electrophoresed through a denaturing 12% polyacrylamide gel and Coomassie stained to detect highly expressed proteins. His-tagged proteins were purified under denaturing conditions using Ni-NTA agarose metal chelating affinity chromatography available from Qiagen according to the manufacturer's instructions. Cells are spun down to remove liquid LB broth media. The cells are then resuspended in 40ml of 8M Urea lysis buffer (pH 8.0) and incubated with agitation overnight at room temperature. The mixture is then spun down and the lysate is removed. The lysate is then incubated with Ni-NTA agarose beads with agitation overnight at room temperature. The beads are pelleted and the supernatant is removed. The beads are then washed twice in lysis buffer pH 8.0 plus Triton X, three times with lysis buffer pH 6.3 plus Triton X, and four times with lysis buffer pH 6.3 without Triton X. The protein is then eluted from the beads with lysis buffer pH4.2 plus 25mM EDTA incubated overnight with agitation at room temperature. The beads are pelleted and the supernatant containing the recombinant protein is removed. The supernatant is then dialyzed twice in .2x PBS to remove the urea and freeze dried for storage. 1L of culture produced 2.4mg of recombinant protein.

[0053] It should be understood that various changes and modifications to the presently preferred embodiments described herein will be apparent to those skilled in the art. Such changes and modifications can be made without departing from the spirit and scope of the present invention and without diminishing its attendant advantages.

Table 1

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

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   1  GGTGCGCACC ACTATGTCTG GCTAATTTTT GTATTTTTTT GTAGAGACAT
  51  GGTTTCACCA TGTTGGCCAG GCTGGTCTCG AATTCCTGAC TTCAAGTAAT
 101  CCACCCACCT CAGCCTCCCA AAGTGCTGGG ATTACAAGCA TGAGCCACCA
 151  TGCATGGCCT AAAGCTTCTT TTAAAGCCAC CAAGTCCCTT CCCATGTTAG
 201  CCCACTAATC CATGGGTTAG TCATGAATGG ATTAATCTAT TCATACGGAC
 251  AGAGCCCTCA TCACCCAATC ACCTCTTAAA GGCCCCACCT CTCAATACTG
 301  CCACACTGGG GATTAAGTTT CAACAGAGTT TTGGAGGGGA CATTCAAATC
 351  ATAGTAATGC CCAAAGTGAA AAATCTTCCC TGCACTTTTC CCTCAACAAA
 401  AACAGCCAGA GATAGTGAGC TGCCAGGAAA TTCTTTTTTT TTTCCTCTTC
 451  TGTCCTAAAT CAGCATCGCT AGACCTTTAC ATGATTCAAC CTCATCTTCT
 501  TCACCCTCTG GGTCATGAAA TTTTATTTAT TTATTTATTA TTTTCTTGGG
 551  ACAGACTCTG GCTCTGTCGC CCAGGCTGAA GTGCAGTGGT GTGATCTTGG
 601  CTCACTGCAA CCTCCGCCTC CCGGGTTCAA GCGATTCTCC TGCCTCAGCC
 651  TCCTGAGTAG CTGGGATTAC AGGTGGGCGC CACCACACCC AGCTAATTTT
 701  TTGTATTTTT AGTAGAGATG GGGTTTCACC ATATTAGCCA GGATGGTCTC
 751  CATCTCTTGA CCTCGTGATC TGCCCACCTC AGCCTCCCAA AATGCTGGGA
 801  TTACAGGCAT GAGACACCAC GCCCAGCAGG CCAGGGTCAT GAGATTTTAA
 851  TCAAGAGCAA CTTCCACTGA TTCCTGAGAG TGCATCTGTG GGCCCCTGCT
 901  CTGATCTGAA CAGAAGTGCC GTGTCTTCTC TGACCTCCAC TTCTCAATTC
 951  AAGAGCCTTA GTATCTGCCA GTATCACACA CTGAGCATTA GCTCCATCTC
```

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
1001	ATGGGGGTGT AGGTAGGGGC TCTATCTGCA TCTTTCTTTC TTTTTTTCTT
1051	TCTTTCCCTT CCTCCCTTCC TCACTCCCTC GGTCCTCTCT TTCTTTCCTT
1101	TTCTTTCTTC CTTCCTCCCT TCCTCCCTCC CTCCCTCTCT CTTTCTCTCT
1151	TTCTTTCTTT CCTTCTTTCT TTCTTTCTCT CTTCCTTCCC TCCCTCCCTC
1201	CTTCCTTCCT TTCTCTTTCT TTCTCTTTCT TTCTTTTTTT CCTTCCTTCC
1251	TTCCTTCTTT CTCTTTCTCT CCCTCCCTTC CTTCCTTCCT TCCTTCCTTC
1301	CTTCCTTTCT TTCTTTCTTT CTTTCTTTCT TTCTTTCTTT CTTTCTTTCT
1351	TTCTTTCTTC CTTCCTTCCT TCCTTCCTTC CTTCCTTCCT TCCTTCCTTT
1401	CTTTTCTTTC TTTCTCTTTC TTTTTGAGAC AGAGCTCTTA TTACCCATGC
1451	TGGAGTGCAG TGGTGTGACC TTGGCTTACT GCAACATCTG CCTCCTAGGG
1501	TCAAGTGATT CTCCTGCCTC AGCCTCCTAA GTAGCTGGGA TTACAGACAC
1551	ATGCCACCAC ACCCAATATT TATTTTTATT AAAATTTTTT TTAAAATTAT
1601	TTTTAAAAAA TTAAAAATAA TTTTGTATTT TTAGTAGAGA CGGGGTTTCT
1651	CCATGTTGGT CAGGCTGATC TCAAACTCCC AACCTCAGGT GATCCTCCCA
1701	CCTCACCTCC CAAAGTGCTG GGATTACAGG CATGAGCCAC CGTGCCCAGC
1751	CTGGTTCCTG GTTTCTAAGA CATCACACAC ACACACACAC ACACACACAC
1801	ACACTCACAC ACTCAGAGAG AGAGAGAGAG AGAGGATCAT TAAGACATGA
1851	TACACTAAGA AATTCTATTC TGCAGACACT GAGAATCCGT TAAAAAGTTT
1901	GAAGGGAAGA ATTGAGATCA TCAGGTGTTT ATTTGAGGAA ATTGTCTGTG
1951	GTTGAACTAT CCTTTCCTTT CTCTCCCTGA GATTTGGTCT TCTCAATTAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

2001 AAGCGTTGCA CAATTCCCCC AACCTCCATA CATACGGCAG CTCTTCTAGA

2051 CACAGGTTTT CCCAGGTCAA ATGCGGGGAC CCCAGCCATA TCTCCCACCC

2101 TGAGAAATTT TGGAGTTTCA GGGAGCTCAG AAGCTCTGCA GAGGCCACCC

2151 TCTCTGAGGG GATTCTTCTT AGACCTCCAT CCAGAGGCAA ATGTTGACCT

Exon1

2201 GTCC**ATG**CTG AAACCCTCAG GCCTTCCTGG GTCATCTTCT CCCACCCGCT

2251 CCTTGATGAC AGGGAGCAGG AGCACTAAAG CCACACCAGA AATGGATTCA

2301 GGACTGACAG GAGCCACCTT GTCACCTAAG ACATCTACAG GTGCAATCGT

2351 GGTGACAGAA CATACTCTGC CCTTTACTTC CCCAGATAAG ACCTTGGCCA

2401 GTCCTACATC TTCGGTTGTG GGAAGAACCA CCCAGTCTTT GGGGGTGATG

2451 TCCTCTGCTC TCCCTGAGTC AACCTCTAGA GGAATGACAC ACTCCGAGCA

2501 AAGAACCAGC CCATCGCTGA GTCCCCAGGT CAATGGAACT CCCTCTAGGA

2551 ACTACCCTGC TACAAGCATG GTTTCAGGAT TGAGTTCCCC AAGGACCAGG

2601 ACCAGTTCCA CAGAAGGAAA TTTTACCAAA GAAGCATCTA CATACACACT

2651 CACTGTAGAG ACCACAAGTG GCCCAGTCAC TGAGAAGTAC ACAGTCCCCA

2701 CTGAGACCTC AACAACTGAA GGTGACAGCA CAGAGACCCC CTGGGACACA

2751 AGATATATTC CTGTAAAAAT CACATCTCCA ATGAAAACAT TTGCAGATTC

2801 AACTGCATCC AAGGAAAATG CCCCAGTGTC TATGACTCCA GCTGAGACCA

2851 CAGTTACTGA CTCACATACT CCAGGAAGGA CAAACCCATC ATTTGGGACA

2901 CTTTATTCTT CCTTCCTTGA CCTATCACCT AAAGGGACCC CAAATTCCAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
2951	AGGTGAAACA AGCCTGGAAC TGATTCTATC AACCACTGGA TATCCCTTCT
3001	CCTCTCCTGA ACCTGGCTCT GCAGGACACA GCAGAATAAG TACCAGTGCG
3051	CCTTTGTCAT CATCTGCTTC AGTTCTCGAT AATAAAATAT CAGAGACCAG
3101	CATATTCTCA GGCCAGAGTC TCACCTCCCC TCTGTCTCCT GGGGTGCCCG
3151	AGGCCAGAGC CAGCACAATG CCCAACTCAG CTATCCCTTT TTCCATGACA
3201	CTAAGCAATG CAGAAACAAG TGCCGAAAGG GTCAGAAGCA CAATTTCCTC
3251	TCTGGGGACT CCATCAATAT CCACAAAGCA GACAGCAGAG ACTATCCTTA
3301	CCTTCCATGC CTTCGCTGAG ACCATGGATA TACCCAGCAC CCACATAGCC
3351	AAGACTTTGG CTTCAGAATG GTTGGGAAGT CCAGGTACCC TTGGTGGCAC
3401	CAGCACTTCA GCGCTGACAA CCACATCTCC ATCTACCACT TTAGTCTCAG
3451	AGGAGACCAA CACCCATCAC TCCACGAGTG GAAAGGAAAC AGAAGGAACT
3501	TTGAATACAT CTATGACTCC ACTTGAGACC TCTGCTCCTG GAGAAGAGTC
3551	CGAAATGACT GCCACCTTGG TCCCCACTCT AGGTTTTACA ACTCTTGACA
3601	GCAAGATCAG AAGTCCATCT CAGGTCTCTT CATCCCACCC AACAAGAGAG
3651	CTCAGAACCA CAGGCAGCAC CTCTGGGAGG CAGAGTTCCA GCACAGCTGC
3701	CCACGGGAGC TCTGACATCC TGAGGGCAAC CACTTCCAGC ACCTCAAAAG
3751	CATCATCATG GACCAGTGAA AGCACAGCTC AGCAATTTAG TGAACCCCAG
3801	CACACACAGT GGGTGGAGAC AAGTCCTAGC ATGAAAACAG AGAGACCCCC
3851	AGCATCAACC AGTGTGGCAG CCCCTATCAC CACTTCTGTT CCCTCAGTGG
3901	TCTCTGGCTT CACCACCCTG AAGACCAGCT CCACAAAAGG GATTTGGCTT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
3951	GAAGAAACAT CTGCAGACAC ACTCATCGGA GAATCCACAG CTGGCCCAAC
4001	CACCCATCAG TTTGCTGTTC CCACTGGGAT TTCAATGACA GGAGGCAGCA
4051	GCACCAGGGG AAGCCAGGGC ACAACCCACC TACTCACCAG AGCCACAGCA
4101	TCATCTGAGA CATCCGCAGA TTTGACTCTG GCCACGAACG GTGTCCCAGT
4151	CTCCGTGTCT CCAGCAGTGA GCAAGACGGC TGCTGGCTCA AGTCCTCCAG
4201	GAGGGACAAA GCCATCATAT ACAATGGTTT CTTCTGTCAT CCCTGAGACA
4251	TCATCTCTAC AGTCCTCAGC TTTCAGGGAA GGAACCAGCC TGGGACTGAC
4301	TCCATTAAAC ACTAGACATC CCTTCTCTTC CCCTGAACCA GACTCTGCAG
4351	GACACACCAA GATAAGCACC AGCATTCCTC TGTTGTCATC TGCTTCAGTT
4401	CTTGAGGATA AAGTGTCAGC GACCAGCACA TTCTCACACC ACAAAGCCAC
4451	CTCATCTATT ACCACAGGGA CTCCTGAAAT CTCAACAAAG ACAAAGCCCA
4501	GCTCAGCCGT TCTTTCCTCC ATGACCCTAA GCAATGCAGC AACAAGTCCT
4551	GAAAGAGTCA GAAATGCAAC TTCCCCTCTG ACTCATCCAT CTCCATCAGG
4601	GGAAGAGACA GCAGGGAGTG TCCTCACTCT CAGCACCTCT GCTGAGACTA
4651	CAGACTCACC TAACATCCAC CCAACTGGGA CACTGACTTC AGAATCGTCA
4701	GAGAGTCCTA GCACTCTCAG CCTCCCAAGT GTCTCTGGAG TCAAAACCAC
4751	ATTTTCTTCA TCTACTCCTT CCACTCATCT ATTTACTAGT GGAGAAGAAA
4801	CAGAGGAAAC TTCGAATCCA TCTGTGTCTC AACCTGAGAC TTCTGTTTCC
4851	AGAGTAAGGA CCACCTTGGC CAGCACCTCT GTCCCTACCC CAGTATTCCC
4901	CACCATGGAC ACCTGGCCTA CACGTTCAGC TCAGTTCTCT TCATCCCACC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
4951	TAGTGAGTGA GCTCAGAGCT ACGAGCAGTA CCTCAGTTAC AAACTCAACT
5001	GGTTCAGCTC TTCCTAAAAT ATCTCACCTC ACTGGGACGG CAACAATGTC
5051	ACAGACCAAT AGAGACACGT TTAATGACTC TGCTGCACCC CAAAGCACAA
5101	CTTGGCCAGA GACTAGTCCC AGATTCAAGA CAGGGTTACC TTCAGCAACA
5151	ACCACTGTTT CAACCTCTGC CACTTCTCTC TCTGCTACTG TAATGGTCTC
5201	TAAATTCACT TCTCCAGCAA CTAGTTCCAT GGAAGCAACT TCTATCAGGG
5251	AACCATCAAC AACCATCCTC ACAACAGAGA CCACGAATGG CCCAGGCTCT
5301	ATGGCTGTGG CTTCTACCAA CATCCCAATT GGAAAGGGCT ACATTACTGA
5351	AGGAAGATTG GACACAAGCC ATCTGCCCAT TGGAACCACA GCTTCCTCTG
5401	AGACATCTAT GGATTTTACC ATGGCCAAAG AAAGTGTCTC AATGTCAGTA
5451	TCTCCATCTC AGTCCATGGA TGCTGCTGGC TCAAGCACTC CAGGAAGGAC
5501	AAGCCAATTC GTTGACACAT TTTCTGATGA TGTCTATCAT TTAACATCCA
5551	GAGAAATTAC AATACCTAGA GATGGAACAA GCTCAGCTCT GACTCCACAA
5601	ATGACTGCAA CTCACCCTCC ATCTCCTGAT CCTGGCTCTG CTAGAAGCAC
5651	CTGGCTTGGC ATCTTGTCCT CATCTCCTTC TTCTCCTACT CCCAAAGTCA
5701	CAATGAGCTC CACATTTTCA ACTCAGAGAG TCACCACAAG CATGATAATG
5751	GACACAGTTG AAACTAGTCG GTGGAACATG CCCAACTTAC CTTCCACGAC
5801	TTCCTTGACA CCAAGTAATA TTCCAACAAG TGGTGCCATA GGAAAAAGCA
5851	CCCTGGTTCC CTTGGACACT CCATCTCCAG CCACATCATT GGAGGCATCA
5901	GAAGGGGGAC TTCCAACCCT CAGCACCTAC CCTGAATCAA CAAACACACC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
5951	CAGCATCCAC CTCGGAGCAC ACGCTAGTTC AGAAAGTCCA AGCACCATCA
6001	AACTTACCAT GGCTTCAGTA GTAAAACCTG GCTCTTACAC ACCTCTCACC
6051	TTCCCCTCAA TAGAGACCCA CATTCATGTA TCAACAGCCA GAATGGCTTA
6101	CTCTTCTGGG TCTTCACCTG AGATGACAGC TCCTGGAGAG ACTAACACTG
6151	GTAGTACCTG GGACCCCACC ACCTACATCA CCACTACGGA TCCTAAGGAT
6201	ACAAGTTCAG CTCAGGTCTC TACACCCCAC TCAGTGAGGA CACTCAGAAC
6251	CACAGAAAAC CATCCAAAGA CAGAGTCCGC CACCCCAGCT GCTTACTCTG
6301	GAAGTCCTAA AATCTCAAGT TCACCCAATC TCACCAGTCC GGCCACAAAA
6351	GCATGGACCA TCACAGACAC AACTGAACAC TCCACTCAAT TACATTACAC
6401	AAAATTGGCA GAAAAATCAT CTGGATTTGA GACACAGTCA GCTCCAGGAC
6451	CTGTCTCTGT AGTAATCCCT ACCTCCCCTA CCATTGGAAG CAGCACATTG
6501	GAACTAACTT CTGATGTCCC AGGGGAACCC CTGGTCCTTG CTCCCAGTGA
6551	GCAGACCACA ATCACTCTCC CCATGGCAAC ATGGCTGAGT ACCAGTTTGA
6601	CAGAGGAAAT GGCTTCAACA GACCTTGATA TTTCAAGTCC AAGTTCACCC
6651	ATGAGTACAT TTGCTATTTT TCCACCTATG TCCACACCTT CTCATGAACT
6701	TTCAAAGTCA GAGGCAGATA CCAGTGCCAT TAGAAATACA GATTCAACAA
6751	CGTTGGATCA GCACCTAGGA ATCAGGAGTT TGGGCAGAAC TGGGGACTTA
6801	ACAACTGTTC CTATCACCCC ACTGACAACC ACGTGGACCA GTGTGATTGA
6851	ACACTCAACA CAAGCACAGG ACACCCTTTC TGCAACGATG AGTCCTACTC
6901	ACGTGACACA GTCACTCAAA GATCAAACAT CTATACCAGC CTCAGCATCC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
6951	CCTTCCCATC TTACTGAAGT CTACCCTGAG CTCGGGACAC AAGGGAGAAG
7001	CTCCTCTGAG GCAACCACTT TTTGGAAACC ATCTACAGAC ACACTGTCCA
7051	GAGAGATTGA GACTGGCCCA ACAAACATTC AATCCACTCC ACCCATGGAC
7101	AACACAACAA CAGGGAGCAG TAGTAGTGGA GTCACCCTGG GCATAGCCCA
7151	CCTTCCCATA GGAACATCCT CCCCAGCTGA GACATCCACA AACATGGCAC
7201	TGGAAAGAAG AAGTTCTACA GCCACTGTCT CTATGGCTGG GACAATGGGA
7251	CTCCTTGTTA CTAGTGCTCC AGGAAGAAGC ATCAGCCAGT CATTAGGAAG
7301	AGTTTCCTCT GTCCTTTCTG AGTCAACTAC TGAAGGAGTC ACAGATTCTA
7351	GTAAGGGAAG CAGCCCAAGG CTGAACACAC AGGGAAATAC AGCTCTCTCC
7401	TCCTCTCTTG AACCCAGCTA TGCTGAAGGA AGCCAGATGA GCACAAGCAT
7451	CCCTCTAACC TCATCTCCTA CAACTCCTGA TGTGGAATTC ATAGGGGGCA
7501	GCACATTTTG GACCAAGGAG GTCACCACAG TTATGACCTC AGACATCTCC
7551	AAGTCTTCAG CAAGGACAGA GTCCAGCTCA GCTACCCTTA TGTCCACAGC
7601	TTTGGGAAGC ACTGAAAATA CAGGAAAAGA AAAACTCAGA ACTGCCTCTA
7651	TGGATCTTCC ATCTCCAACT CCATCAATGG AGGTGACACC ATGGATTTCT
7701	CTCACTCTCA GTAATGCCCC CAATACCACA GATTCACTTG ACCTCAGCCA
7751	TGGGGTGCAC ACCAGCTCTG CAGGGACTTT GGCCACTGAC AGGTCATTGA
7801	ATACTGGTGT CACTAGAGCC TCCAGATTGG AAAACGGCTC TGATACCTCT
7851	TCTAAGTCCC TGTCTATGGG AAACAGCACT CACACTTCCA TGACTTACAC
7901	AGAGAAGAGT GAAGTGTCTT CTTCAATCCA TCCCCGACCT GAGACCTCAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
7951	CTCCTGGAGC AGAGACCACT TTGACTTCCA CTCCTGGAAA CAGGGCCATA
8001	AGCTTAACAT TGCCTTTTTC ATCCATTCCA GTGGAAGAAG TCATTTCTAC
8051	AGGCATAACC TCAGGACCAG ACATCAACTC AGCACCCATG ACACATTCTC
8101	CCATCACCCC ACCAACAATT GTATGGACCA GTACAGGCAC AATTGAACAG
8151	TCCACTCAAC CACTACATGC AGTTTCTTCA GAAAAAGTTT CTGTGCAGAC
8201	ACAGTCAACT CCATATGTCA ACTCTGTGGC AGTGTCTGCT TCCCCTACCC
8251	ATGAGAATTC AGTCTCTTCT GGAAGCAGCA CATCCTCTCC ATATTCCTCA
8301	GCCTCACTTG AATCCTTGGA TTCCACAATC AGTAGGAGGA ATGCAATCAC
8351	TTCCTGGCTA TGGGACCTCA CTACATCTCT CCCCACTACA ACTTGGCCAA
8401	GTACTAGTTT ATCTGAGGCA CTGTCCTCAG GCCATTCTGG GGTTTCAAAC
8451	CCAAGTTCAA CTACGACTGA ATTTCCACTC TTTTCAGCTG CATCCACATC
8501	TGCTGCTAAG CAAAGAAATC CAGAAACAGA GACCCATGGT CCCCAGAATA
8551	CAGCCGCGAG TACTTTGAAC ACTGATGCAT CCTCGGTCAC AGGTCTTTCT
8601	GAGACTCCTG TGGGGGCAAG TATCAGCTCT GAAGTCCCTC TTCCAATGGC
8651	CATAACTTCT AGATCAGATG TTTCTGGCCT TACATCTGAG AGTACTGCTA
8701	ACCCGAGTTT AGGCACAGCC TCTTCAGCAG GGACCAAATT AACTAGGACA
8751	ATATCCCTGC CCACTTCAGA GTCTTTGGTT TCCTTTAGAA TGAACAAGGA
8801	TCCATGGACA GTGTCAATCC CTTTGGGGTC CCATCCAACT ACTAATACAG
8851	AAACAAGCAT CCCAGTAAAC AGCGCAGGTC CACCTGGCTT GTCCACAGTA
8901	GCATCAGATG TAATTGACAC ACCTTCAGAT GGGGCTGAGA GTATTCCCAC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
8951	TGTCTCCTTT TCCCCCTCCC CTGATACTGA AGTGACAACT ATCTCACATT
9001	TCCCAGAAAA GACAACTCAT TCATTTAGAA CCATTTCATC TCTCACTCAT
9051	GAGTTGACTT CAAGAGTGAC ACCTATTCCT GGGGATTGGA TGAGTTCAGC
9101	TATGTCTACA AAGCCCACAG GAGCCAGTCC CTCCATTACA CTGGGAGAGA
9151	GAAGGACAAT CACCTCTGCT GCTCCAACCA CTTCCCCCAT AGTTCTCACT
9201	GCTAGTTTCA CAGAGACCAG CACAGTTTCA CTGGATAATG AAACTACAGT
9251	AAAAACCTCA GATATCCTTG ACGCACGGAA AACAAATGAG CTCCCCTCAG
9301	ATAGCAGTTC TTCTTCTGAT CTGATCAACA CCTCCATAGC TTCTTCAACT
9351	ATGGATGTCA CTAAAACAGC CTCCATCAGT CCCACTAGCA TCTCAGGAAT
9401	GACAGCAAGT TCCTCCCCAT CTCTCTTCTC TTCAGATAGA CCCCAGGTTC
9451	CCACATCTAC AACAGAGACA AATACAGCCA CCTCTCCATC TGTTTCCAGT
9501	AACACCTATT CTCTTGATGG GGGCTCCAAT GTGGGTGGCA CTCCATCCAC
9551	TTTACCACCC TTTACAATCA CCCACCCTGT CGAGACAAGC TCGGCCCTAT
9601	TAGCCTGGTC TAGACCAGTA AGAACTTTCA GCACCATGGT CAGCACTGAC
9651	ACTGCCTCCG GAGAAAATCC TACCTCTAGC AATTCTGTGG TGACTTCTGT
9701	TCCAGCACCA GGTACATGGA CCAGTGTAGG CAGTACTACT GACTTACCTG
9751	CCATGGGCTT TCTCAAGACA AGTCCTGCAG GAGAGGCACA CTCACTTCTA
9801	GCATCAACTA TTGAACCAGC CACTGCCTTC ACTCCCCATC TCTCAGCAGC
9851	AGTGGTCACT GGATCCAGTG CTACATCAGA AGCCAGTCTT CTCACTACGA
9901	GTGAAAGCAA AGCCATTCAT TCTTCACCAC AGACCCCAAC TACACCCACC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
9951	TCTGGAGCAA ACTGGGAAAC TTCAGCTACT CCTGAGAGCC TTTTGGTAGT
10001	CACTGAGACT TCAGACACAA CACTTACCTC AAAGATTTTG GTCACAGATA
10051	CCATCTTGTT TTCAACTGTG TCCACGCCAC CTTCTAAATT TCCAAGTACG
10101	GGGACTCTGT CTGGAGCTTC CTTCCCTACT TTACTCCCGG ACACTCCAGC
10151	CATCCCTCTC ACTGCCACTG AGCCAACAAG TTCATTAGCT ACATCCTTTG
10201	ATTCCACCCC ACTGGTGACT ATAGCTTCGG ATAGTCTTGG CACAGTCCCA
10251	GAGACTACCC TGACCATGTC AGAGACCTCA AATGGTGATG CACTGGTTCT
10301	TAAGACAGTA AGTAACCCAG ATAGGAGCAT CCCTGGAATC ACTATCCAAG
10351	GAGTAACAGA AAGTCCACTC CATCCTTCTT CCACTTCCCC CTCTAAGATT
10401	GTTGCTCCAC GGAATACAAC CTATGAAGGT TCGATCACAG TGGCACTTTC
10451	TACTTTGCCT GCGGGAACTA CTGGTTCCCT TGTATTCAGT CAGAGTTCTG
10501	AAAACTCAGA GACAACGGCT TTGGTAGACT CATCAGCTGG GCTTGAGAGG
10551	GCATCTGTGA TGCCACTAAC CACAGGAAGC CAGGGTATGG CTAGCTCTGG
10601	AGGAATCAGA AGTGGGTCCA CTCACTCAAC TGGAACCAAA ACATTTTCTT
10651	CTCTCCCTCT GACCATGAAC CCAGGTGAGG TTACAGCCAT GTCTGAAATC
10701	ACCACGAACA GACTGACAGC TACTCAATCA ACAGCACCCA AAGGGATACC
10751	TGTGAAGCCC ACCAGTGCTG AGTCAGGCCT CCTAACACCT GTCTCTGCCT
10801	CCTCAAGCCC ATCAAAGGCC TTTGCCTCAC TGACTACAGC TCCCCCAACT
10851	TGGGGGATCC CACAGTCTAC CTTGACATTT GAGTTTTCTG AGGTCCCAAG
10901	TTTGGATACT AAGTCCGCTT CTTTACCAAC TCCTGGACAG TCCCTGAACA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
10951	CCATTCCAGA CTCAGATGCA AGCACAGCAT CTTCCTCACT GTCCAAGTCT
11001	CCAGAAAAAA ACCCAAGGGC AAGGATGATG ACTTCCACAA AGGCCATAAG
11051	TGCAAGCTCA TTTCAATCAA CAGGTTTTAC TGAAACCCCT GAGGGATCTG
11101	CCTCCCCTTC TATGGCAGGG CATGAACCCA GAGTCCCCAC TTCAGGAACA
11151	GGGGACCCTA GATATGCCTC AGAGAGCATG TCTTATCCAG ACCCAAGCAA
11201	GGCATCATCA GCTATGACAT CGACCTCTCT TGCATCAAAA CTCACAACTC
11251	TCTTCAGCAC AGGTCAAGCA GCAAGGTCTG GTTCTAGTTC CTCTCCCATA
11301	AGCCTATCCA CTGAGAAAGA AACAAGCTTC CTTTCCCCCA CTGCATCCAC
11351	CTCCAGAAAG ACTTCACTAT TTCTTGGGCC TTCCATGGCA AGGCAGCCCA
11401	ACATATTGGT GCATCTTCAG ACTTCAGCTC TGACACTTTC TCCAACATCC
11451	ACTCTAAATA TGTCCCAGGA GGAGCCTCCT GAGTTAACCT CAAGCCAGAC
11501	CATTGCAGAA GAAGAGGGAA CAACAGCTGA AACACAGACG TTAACCTTCA
11551	CACCATCTGA GACCCCAACA TCCTTGTTAC CTGTCTCTTC TCCCACAGAA
11601	CCCACAGCCA GAAGAAAGAG TTCTCCAGAA ACATGGGCAA GCTCTATTTC
11651	AGTTCCTGCC AAGACCTCCT TGGTTGAAAG TAAGAATGCC CTGCTCCTTC
11701	CCCAAGTGTG CTGGGGATGA ATCTGGAAAT AAACTACATC TTTTTTATTT
11751	TTTAAACTTT TATATTTGAA AATATAAATA TTTTAGGTTC AGGGAACATG
11801	TGCAGGTTTG TTATATAGGT AAATTGCATG TCATGGGGGC TTGGGGTACA
11851	GATTACATCA TCAGCCAGGT AATAAGCCTA GTACCTGATC AGTAGATTTT
11901	TTTTAATCCT CTCCCTCCTC CCAGCCTCCA CCCTCAATTC ACATGTCTCC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

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11951  ATGTGTACTC AAGGTTTAAT TCCCACTTAT GAGTGAGAAC ATGCGGTATT
12001  TGTAAACTAC ATCTTTATTT TTGCTAACCT CGAACTGAAA TTTAGCATTT
12051  GTTTTATTGA TGAATAGAGG TAACAAAACA AACCACATTA ATCCTAGCAG
12101  TGCCTGTGCC TTTGCCAACA ACAGAAATTC CGGACACTTT CATATCCTAT
12151  GACAATTGTT GCAAGCACTT TTAAAAATCA TGTACGACTT TATTCATAAT
12201  TATAGTGGTT ATTAGGCTTT TCAATAGATC TTATTTAATG AGTTAGTAAA
12251  ATAAGTGCCT GTATTATTGT ATTACATTTG TTTATTAAGA TCTTGATAAC
12301  AACATTTCAA TATAATCATT TCCTTTGTTT TTTAAATTTT AGATTCAGGG
12351  GTATATGTGC AGGTTTGTTA CGTGGATATA CTGCATAATG ATGAGGTTTG
12401  GCTTCTAGTG AACCCATCAG CCAAATAGTG AATGTTGTGC CCAATAAGTA
12451  GTTTTTCAAT CCTCACTTCA CTCCCAGCCT CCTCTATTTT GGAGTCCCAG
12501  TGTCTATTAT TTCTATCTTT ATGTCCACAT GTACCCATTG GTTAGCTCCC
12551  ACTTATAAGT GAGAATGTGC AGTATTTAAT TTTCTGTTTT TGAGTTATTT
12601  TGCTTAGGTT GATGGCCTTC AGCTCCAGCC ACGTTGCTTT AAAGAACATG
12651  ATTTCATTCT TTTTTATGGC TGCATAGTAC TCCGAGGTGT ATGTGTACCA
12701  GATTTTCTTT ATCCACAATG ATTTCCTTTG TAATCTAATA TTTTATATTG
12751  TTATTTTATG TTTTATTCTA TATTTTTATT TTAATTTATA AAGGAATTCA
12801  TATGGTTCAC AAGCCTGTCA AAGGGACCTA TAATAAAAAG AGGTTAAGAA
12851  TCCATGCTCT AAACAGAATA TTACTCCATT TTATTTCATT TATTTTTAAA
12901  GAGACAGTCT CACTCTGTCA TCCAGGCTGG AGTACAGTGG AGTGATCATA
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Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

12951 GCTCATTGCA ACCCTGAACT CTTGGGCACA AGCAATTCTC CTGCTTCATC

13001 CTCCAGAGGA GCTGGGACTA CAGGTGCACA TCACCATGCC CAGCTAGTTT

13051 TAAAAATTAT TTTGTAGAGA TGGTGTCTCA CTATCCTACC CAGGCTGGTC

13101 TCAAACTCCT GGGCTCAGGC AATCCTCCCA CTTTGACCTC CCAAAGTGTT

13151 GAGATTACAG GGGCAAGCCA CTGTGCCTGG CCACTTGTCA CATTTTAATT

13201 TGTGATTACT TATAAAATGA ACCCCTTCCC ATCTGAGATC TGTCAGTCTT

13251 TCTGGTGACG GTGCCTGGTG TCTGCTTTCT ACCATGTCCT GTTAGACTAG

13301 TGTTTGATGG GAGGTCACCT GGGCAGCTGT CCAGCTCACT CACTGGGCTC

13351 TAGAGCCTCT GAGTTGAAGC AAAATAGAAA GATCAGTCAA TGTAAAGAAA

13401 GCTCAAAAAC TGACATTCTG AAGTAATGGA TAGCTAAACC TTCCTATTGC

Exon 2

13451 CCTTTTCTTT CAGCAACTGA TGGAACGCTA GTGACCACCA TAAAGATGTC

13501 AAGCCAGGCA GCACAAGGAA ATTCCACGTG GCCTGCCCCA GCAGAGGAGA

13551 CGGGGACCAG TCCAGCAGGT AAATATAGAC CTTGTTTCCA TTTCTGCTCT

13601 GCTAATGCCA CCCAAGCCTT TCTTTTCTTT TCTTTTCTTT TCTTTTCTTT

13651 TCTTTTCTTT TCTTTTCTTT CTCTCCCTTT CTTTCTTTCT TTCTTTCTTT

13701 CTTTCTTTCT TTCTTTCTTT CTTTCTTTCT CTTTCTTTCT TTCTTTCTTT

13751 CTTTCTTTCT TTCTTTCTTT CTTTCTTTCT CTTTCTTTCT TCTTTCTCTC

13801 TCTCTCTTTC TTTCTTTCTC TTGTTCTTTT TAAATTTTTT ATTTTTTTAC

13851 TTAATTTTTT TCACCCAAGC CTTAAGGCCA GTTTGGACCA GATAGTGAGA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)				
13901	CCCCACCTCT	ATAAAAAAAA	TTTTTAAAAA	AAAAATAAGT	TGGGCATCGT
13951	GCAGGCCTGT	AGTCCCTGCT	ACTCGAGAGG	CCAAGGTGGG	AGGACAGCTT
14001	GCTGCTGACT	AAAAGTGCTG	CTTATTGATT	CTGGGAAGAA	AAAATATACA
14051	AGGCTTCAGT	TTCATTATTT	TATAAGTAAA	TGCTAGCAAC	TTTTCCTTTC
14101	TTTCTCTCTT	TCTCTCTTCC	TCTCTTTCTC	TCCTCTCCTT	CTCTTCTCTC
14151	TCTCTCTCTC	TCTCTCTCTC	TTTCTCTCTC	CTCTCCTTCT	CTTCTCTTCT
14201	TTCTCTCTCT	CTCTCTTTCA	TTTATTTTTG	AGACATGGTC	TCATTCTGTC
14251	ACCCAGGCTG	GAGTACAGTG	GTGTATATTT	ACTGCAGTAC	TCACTGTACT
14301	CACTGCAGCC	TCAAATTCCT	GGGCTCAAGC	TATCCTCTCA	CCTCAGCCTC
14351	CTGAGTAGCT	GGGCAGCAGT	CCAGCTCACT	CACTGGGCTC	TAGAGCCTCT
14401	GTGCTATGCC	CAGCTTATTG	TTGTTGTTTT	TTTAAATTTT	TTTTTTTGTA
14451	CAGATGGGGT	CTCACTATGT	GGCCCAAGGT	GGTCTTAAAC	TCCTGGCTCC
14501	AAGAGATCCT	CCCACCTCAG	CCTCCCAAAG	TGCAGGGATT	ACAGGTGTGA
14551	GCCACTGTGC	CCAGCCTAGA	CAGCATTTTT	TTTTTTTGAA	ACAGGGTCTC
14601	CCTCTGTTGC	CCAGGCTGGA	GTGCAATGGC	GTGTTCATGG	TTCACTGCAG
14651	CCTCAGCCTC	CTCAGTCTCA	AGCAATCCTC	CAACTTCAGC	CTCCCCCAAC
14701	AGCTAGAACT	GCAGGTGATC	ATCACCAATT	AGCCTGGTTA	ATTGTGTGTG
14751	TATTTCTTAA	ATTTTTTGTA	GAGATAGTTC	TCACTATATT	GCTTGGGCTG
14801	GTCTCAAACT	CCTGGACTCA	AGTGATTCAC	CTACCTCGGC	CTCCCTAAGC
14851	ACTGGGATTA	CAGGCTTGAG	CCACCACACC	CGGCAAGGAC	TAGGTTTTAA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

14901 AATAGGTTCC TAGGCTGGGT GTGGTGGCTT ACGCCCGTAA TCCCAGCACT

14951 TTGGGAGGCT GAGGTGGGCG GATCACGAGG TCAGGAGTTT GAGACCAGCC

15001 TGGCCAACAT AGTGAAACCC TGTCTCTACT AAAAATACAA AAAATTAGCT

15051 GGGCATAGTG GCACACACCT GTAATCCCAG CTACTCGGGA GGCTGAGGAA

15101 GGAGAATCAC TTGAACCTGG GAGGCGGAGG TTGCAGTGAG CCGAGATCAT

15151 GCCATTGCTC TCCAGCCTGG GTGACAGAGC AAGACTCCAT CTAAAAAAAA

15201 AAAAAAAAGT TCCTTTGACT TCTTGACACT CTTCTCTGAG GATATTGATC

15251 ATTTTTCCCC AATAGATGTT ACTAATTGAA CACTTCTGTT GCTTCAACTT

15301 ACTAATTTAC ATGATCAATA GCCAATTAAT TCAGCAGGAG AGAATGCTAC

15351 AGAGTCGATT CTTTCTGTAC TTTCTTCTGC TCCAGAGTGA AGGATCTTTC

15401 TAAATCAGAG ACCATCACTG TGTTCACAGG GAGGGCCTAG GTGAACCTGA

15451 GATGGCAAAT GTTGCGTTTG TTCTACGGAA GAAGGGATTA TGGGTTGAAG

15501 TCCTTGGCAG TGCCAAATTG CTTAGAAAAA TGTGAAATAT GGTCCCTAGG

15551 AGTGCTCTTG GGATGTCACA TTTTTCTCAC TCCTTTGACA GGTAGATGTT

15601 ATTTTCCTGA AGGCCAGGGA AAGGATTCAG AGGGAGGAAT GAATTTGAAA

15651 GAAAATGAAG GTGACGAGAA AGAATGAGCT CATCTCCCTT ATCCTCTTTC

15701 TTCTCAAATC CTTAAGTAGC TTTGCAGTGA ACTAAGATTT GGGGGAACCT

15751 AGAGGAGGCT GAAAGTTGGA AGCTGAAATT GGCTTAGCAA GGGCAAGCTC

15801 CAAAGACAAA AGTGGAAATA GTTTGGGGGT AGCCTTTTGC ATGGGTGAAA

15851 TCCTGGTTCA TCACATCCTC CCTTATGCAA AGAGCCCTTT TATATGGGGC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

15901 ATGGGGAAAA ACTGAGCTAA AGGTGATAAT TTCTCCTGAG CAAGCCAGAT

15951 GGTCAAAGCT CTAACTTCAC CATCTCCCTT GGAATGTTTA ATGTGTTCCC

16001 TGGTGTCCAG AGGCTTAACG TGTGAGAATT AAAAGCTCAA CATTTTCTTT

16051 CCCAGGGAAG GAGGAAATAG TTTTAATTGA AATCCCGGGA GGAAATGAAT

16101 GATAGTGTCA AACCAAAAAA CTTCATCTTC TGTACCACTT GCATATACTC

Exon 3

16151 CACTGACTTA CTTTCTAATC ACAGGCACAT CCCCAGGAAG CCCAGAAATG

16201 TCTACCACTC TCAAAATCAT GAGCTCCAAG GAACCCGGCA TCAGCCCAGA

16251 GATCAGGTCC ACTGTGAGAA ATTCTCCTTG GAAGACTCCA GAAACAACTG

16301 TTCCCATGGA GACCACAGTG GAACCAGTCA CCCTTCAGTC CACAGCCCTA

16351 GGAAGTGGCA GCACCAGCAT CTCTCACCTG CCCACAGGAA CCACATCACC

16401 AACCAAGTCA CCAACAGAAA ATATGTTGGC TACAGAAAGG GTCTCCCTCT

16451 CCCCATCCCC ACCTGAGGCT TGGACCAACC TTTATTCTGG AACTCCAGGA

16501 GGGACCAGGC AGTCACTGGC CACAATGTCC TCTGTCTCCC TAGAGTCACC

16551 AACTGCTAGA AGCATCACAG GGACTGGTCA GCAAAGCAGT CCAGAACTGG

16601 TTTTAAAGAC AACTGGAATG GAATTCTCTA TGTGGCATGG CTCTACTGGA

16651 GGGACCACAG GGGACACACA TGTCTCTCTG AGCACATCTT CCAATATCCT

16701 TGAAGACCCT GTAACCAGCC CAAACTCTGT GAGCTCATTG ACAGATAAAT

16751 CCAAACATAA AACCGAGACA TGGGTCAGCA CCACAGCCAT TCCCTCCACT

16801 GTCCTGAATA ATAAGATAAT GGCAGCTGAA CAACAGACAA GTCGATCTGT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
16851	GGATGAGGCT TATTCATCAA CTAGTTCTTG GTCAGATCAG ACATCTGGGA
16901	GTGACATCAC CCTTGGTGCA TCTCCTGATG TCACAAACAC ATTATACATC
16951	ACCTCCACAG CACAAACCAC CTCACTAGTA TCTCTGCCCT CTGGAGACCA
17001	AGGCATTACA AGCCTCACCA ATCCCTCAGG AGGAAAAACA AGCTCTGCAT
17051	CATCTGTCAC ATCTCCTTCA ATAGGGCTTG AGACTCTGAT GGCCAATGTA
17101	AGTGCAGTGA CAAGTGACAT TGCCCCTACT GCTGGGCATC TATCTCAGAC
17151	TTCATCTCCT GCGGAAGTGA GCATCCTGGA CATAACCACA GCTCCTACTC
17201	CAGGTATCTC CACCACCATC ACCACCATGG GAACCAACTC AATCTCAACT
17251	ACCACACCCA ACCCAGAAGT GGGTATGAGT ACCATGGACA GCACCCCGGC
17301	CACAGAGAGG CACACAACTT CTACAGAACA CCCTTCCACC TGGTCTTCCA
17351	CAGCTGCATC AGATTCCTGG ACTGTCACAG ACATGACTTC AAACTTGAAA
17401	GTTGCAAGAT CTCCTGGAAC AATTTCCACA ATGCATACAA CTTCATTCTT
17451	AGCCTCAAGC ACTGAATTAG ACTCCATGTC TACTCCCCAT GGCCGTATAA
17501	CTGTCATTGG AACCAGCCTG GTCACTCCAT CCTCTGATGC TTCAGCTGTA
17551	AAGACAGAGA CCAGTACAAG TGAAAGAACA TTGAGTCCTT CAGACACAAC
17601	TGCATCTACT CCCATCTCAA CTTTTTCTCG TGTCCAGAGG ATGAGCATCT
17651	CAGTTCCTGA CATTTTAAGT ACAAGTTGGA CTCCCAGTAG TACAGAAGCA
17701	GAAGATGTGC CTGTTTCAAT GGTTTCTACA GATCATGCTA GTACAAAGAC
17751	TGACCCAAAT ATGCCCCTGT CCACTTTTCT GTTTGATTCT CTGTCCACTC
17801	TTGACTGGGA CACTGGGAGA TCTCTGTCAT CAGCCACAGC CACTACCTCA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
17851	GCTCCTCAGG GGGCCACAAC TCCCCAAGAA CTCACTTTGG AAACCATGAT
17901	CAGCCCAGCT ACCTCACAGT TGCCCTTCTC TATAGGGCAC ATTACAAGTG
17951	CAGTCATACC AGCTGCAATG GCAAGGAGCT CTGGAGTTAC TTTTTCAAGA
18001	CCAGATCCCA CAAGCAAAAA GGCAGAGCAG ACTTCCACTC AGCTTCCCAC
18051	CACCACTTCT GCACATCCAG AGCAGGTGCC CAGATCAGCA GCAACAACTC
18101	TGGATGTGAT CCCACACACA GCAAAAACTC CAGATGCAAC TTTTCAGAGA
18151	CAAGGGCAGA CAGCTCTTAC AACAGAGGCA AGAGCTACAT CTGACTCCTG
18201	GAATGAGAAA GAAAAATCAA CCCCAAGTGC ACCTTGGATC ACTGAGATGA
18251	TGAATTCTGT CTCAGAAGAT ACCATCAAGG AGGTTACCAG CTCCTCCAGT
18301	GTGTTAAGGA CCCTGAATAC GCTGGACATA AACTTGGAAT CTGGGACGAC
18351	TTCATCCCCA AGTTGGAAAA GCAGCCCATA TGAGAGAATT GCCCCTTCTG
18401	AGTCTACCAC AGACAAAGAG GCAATTCACC CTTCTACAAA CACAGTAGAG
18451	ACCACTGGCT GGGTCACAAG TTCCGAACAT GCTTCTCATT CCACTATCCC
18501	AGCCCACTCA GCGTCATCCA AACTCACATC TCCAGTGGTT ACAACCTCCA
18551	CCAGGGAACA AGCAATAGTT TCTATGTCAA CAACCACATG GCCAGAGTCT
18601	ACAAGGGCTA GAACAGAGCC TAATTCCTTC TTGACTATTG AACTGAGGGA
18651	CGTCAGCCCT TACATGGACA CCAGCTCAAC CACACAAACA AGTTTTATCT
18701	CTTCCCCAGG TTCCACTGCG ATCACCAAGG GGCCTAGAAC AGAAATTACC
18751	TCCTCTAAGA GAATATCCAG CTCATTCCTT GCCCAGTCTA TGAGGTCGTC
18801	AGACAGCCCC TCAGAAGCCA TCTCCAGGCT GTCTAACTTT CCTGCCATGA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

18851 CAGAATCTGG AGGAATGATC CTTGCTATGC AAACAAGTCC ACCTGGCGCT

18901 ACATCACTAA GTGCACCTAC TTTGGATACA TCAGCCACAG CCTCCTGGAC

18951 AGGGACTCCA CTGGCTACGA CTCAGAGATT TACATACTCA GAGAAGACCA

19001 CTCTCTTTAG CAAAGGTCCT GAGGATACAT CACAGCCAAG CCCTCCCTCT

19051 GTGGAAGAAA CCAGCTCTTC CTCTTCCCTG GTACCTATCA ATGCTACAAC

19101 CTCGCCTTCC AATATTTTGT TGACATCACA AGGGCACAGT CCCTCCTCTA

19151 CTCCACCTGT GACCTCAGTT TTCTTGTCTG AGACCTCTGG CCTGGGGAAG

19201 ACCACAGACA TGTCGAGGAT AAGCTTGGAA CCTGGCACAA GTTTACCTCC

19251 CAATTTGAGC AGTACAGCAG GTGAGGCGTT ATCCACTTAT GAAGCCTCCA

19301 GAGATACAAA GGCAATTCAT CATTCTGCAG ACACAGCAGT GACGAATATG

19351 GAGGCAACCA GTTCTGAATA TTCTCCTATC CCAGGCCATA CAAAGCCATC

19401 CAAAGCCACA TCTCCATTGG TTACCTCCCA CATCATGGGG GACATCACTT

19451 CTTCCACATC AGTATTTGGC TCCTCCGAGA CCACAGAGAT TGAGACAGTG,

19501 TCCTCTGTGA ACCAGGGACT TCAGGAGAGA AGCACATCCC AGGTGGCCAG

19551 CTCTGCTACA GAGACAAGCA CTGTCATTAC CCATGTGTCT AGTGGTGATG

19601 CTACTACTCA TGTCACCAAG ACACAAGCCA CTTTCTCTAG CGGAACATCC

19651 ATCTCAAGCC CTCATCAGTT TATAACTTCT ACCAACACAT TTACAGATGT

19701 GAGCACCAAC CCCTCCACCT CTCTGATAAT GACAGAATCT TCAGGAGTGA

19751 CCATCACCAC CCAAACAGGT CCTACTGGAG CTGCAACACA GGGTCCATAT

19801 CTCTTGGACA CATCAACCAT GCCTTACTTG ACAGAGACTC CATTAGCTGT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
19851	GACTCCAGAT TTTATGCAAT CAGAGAAGAC CACTCTCATA AGCAAAGGTC
19901	CCAAGGATGT GTCCTGGACA AGCCCTCCCT CTGTGGCAGA AACCAGCTAT
19951	CCCTCTTCCC TGACACCTTT CTTGGTCACA ACCATACCTC CTGCCACTTC
20001	CACGTTACAA GGGCAACATA CATCCTCTCC TGTTTCTGCG ACTTCAGTTC
20051	TTACCTCTGG ACTGGTGAAG ACCACAGATA TGTTGAACAC AAGCATGGAA
20101	CCTGTGACCA ATTCACCTCA AAATTTGAAC AATCCATCAA ATGAGATACT
20151	GGCCACTTTG GCAGCCACCA CAGATATAGA GACTATTCAT CCTTCCATAA
20201	ACAAAGCAGT GACCAATATG GGGACTGCCA GTTCAGCACA TGTACTGCAT
20251	TCCACTCTCC CAGTCAGCTC AGAACCATCT ACAGCCACAT CTCCAATGGT
20301	TCCTGCCTCC AGCATGGGGG ACGCTCTTGC TTCTATATCA ATACCTGGTT
20351	CTGAGACCAC AGACATTGAG GGAGAGCCAA CATCCTCCCT GACTGCTGGA
20401	CGAAAAGAGA ACAGCACCCT CCAGGAGATG AACTCAACTA CAGAGTCAAA
20451	CATCATCCTC TCCAATGTGT CTGTGGGGGC TATTACTGAA GCCACAAAAA
20501	TGGAAGTCCC CTCTTTTGAT GCAACATTCA TACCAACTCC TGCTCAGTCA
20551	ACAAAGTTCC CAGATATTTT CTCAGTAGCC AGCAGTAGAC TTTCAAACTC
20601	TCCTCCCATG ACAATATCTA CCCACATGAC CACCACCCAG ACAGGGTCTT
20651	CTGGAGCTAC ATCAAAGATT CCACTTGCCT TAGACACATC AACCTTGGAA
20701	ACCTCAGCAG GGACTCCATC AGTGGTGACT GAGGGGTTTG CCCACTCAAA
20751	AATAACCACT GCAATGAACA ATGATGTCAA GGACGTGTCA CAGACAAACC
20801	CTCCCTTTCA GGATGAAGCC AGCTCTCCCT CTTCTCAAGC ACCTGTCCTT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
20851	GTCACAACCT TACCTTCTTC TGTTGCTTTC ACACCGCAAT GGCACAGTAC
20901	CTCCTCTCCT GTTTCTATGT CCTCAGTTCT TACTTCTTCA CTGGTAAAGA
20951	CCGCAGGCAA GGTGGATACA AGCTTAGAAA CAGTGACCAG TTCACCTCAA
21051	AGATATAGAG ACAACGCATC CTTCCATAAA CACAGTAGTT ACCAATGTGG
21101	GGACCACCGG TTCAGCATTT GAATCACATT CTACTGTCTC AGCTTACCCA
21151	GAGCCATCTA AAGTCACATC TCCAAATGTT ACCACCTCCA CCATGGAAGA
21201	CACCACAATT TCCAGATCAA TACCTAAATC CTCTAAGACT ACAAGAACTG
21251	AGACTGAGAC AACTTCCTCC CTGACTCCTA AACTGAGGGA GACCAGCGTC
21301	TCCCAGGAGA TCACCTCGTC CACAGAGACA AGCACTGTTC CTTACAAAGA
21351	GCTCACTGGT GCCACTACCG AGGTATCCAG GACAGATGTC ACTTCCTCTA
21401	GCAGTACATC CTTCCCTGGC CCTGATCAGT CCACAGTGTC ACTAGACATC
21451	TCCACAGAAA CCAACACCAG GCTGTCTACC TCCCCAATAA TGACAGAATC
21501	TGCAGAAATA ACCATCACCA CCCAAACAGG TCCTCATGGG GCTACATCAC
21551	AGGATACTTT TACCATGGAC CCATCAAATA CAACCCCCCA GGCAGGGATC
21601	CACTCAGCTA TGACTCATGG ATTTTCACAA TTGGATGTGA CCACTCTTAT
21651	GAGCAGAATT CCACAGGATG TATCATGGAC AAGTCCTCCC TCTGTGGATA
21701	AAACCAGCTC CCCCTCTTCC TTTCTGCCCT CACCTGCAAT GACCACACCT
21751	TCCCTGATTT CTTCTACCTT ACCAGAGGAT AAGCTCTCCT CTCCTATGAC
21801	TTCACTTCTC ACCTCTGGCC TAGTGAAGAT TACAGACATA TTACGTACAC
21851	GCTTGGAACC TGTGACCAGC TCACTTCCAA ATTTCAGCAG CACCTCAGAT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
21901	AAGATACTGG CCACTTCTAA AGACAGTAAA GACACAAAGG AAATTTTTCC
21951	TTCTATAAAC ACAGAAGAGA CCAATGTGAA AGCCAACAAC TCTGGACATG
22001	AATCCCATTC CCCTGCACTG GCTGACTCAG AGACACCCAA AGCCACAACT
22051	CAAATGGTTA TCACCACCAC TGTGGGAGAT CCAGCTCCTT CCACATCAAT
22101	GCCAGTGCAT GGTTCCTCTG AGACTACAAA CATTAAGAGA GAGCCAACAT
22151	ATTTCTTGAC TCCTAGACTG AGAGAGACCA GTACCTCTCA GGAGTCCAGC
22201	TTTCCCACGG ACACAAGTTT TCTACTTTCC AAAGTCCCCA CTGGTACTAT
22251	TACTGAGGTC TCCAGTACAG GGGTCATCTC TTCTAGCAAA ATTTCCACCC
22301	CAGACCATGA TAAGTCCACA GTGCCACCTG ACACCTTCAC AGGAGAGATC
22351	CCCAGGGTCT TCACCTCCTC TATTAAGACA AAATCTGCAG AAATGACGAT
22401	CACCACCCAA GCAAGTCCTC CTGAGTCTGC ATCGCACAGT ACCCTTCCCT
22451	TGGACACATC AACCACACTT TCCCAGGGAG GGACTCATTC AACTGTGACT
22501	CAGGGATTCC CATACTCAGA GGTGACCACT CTCATGGGCA TGGGTCCTGG
22551	GAATGTGTCA TGGATGACAA CTCCCCCTGT GGAAGAAACC AGCTCTGTGT
22601	CTTCCCTGAT GTCTTCACCT GCCATGACAT CCCCTTCTCC TGTTTCCTCC
22651	ACATCACCAC AGAGCATCCC CTCCTCTCCT CTTCCTGTGA CTGCACTTCC
22701	TACTTCTGTT CTGGTGACAA CCACAGATGT GTTGGGCACA ACAAGCCCAG
22751	AGTCTGTAAC CAGTTCACCT CCAAATTTGA GCAGCATCAC TCATGAGAGA
22801	CCGGCCACTT ACAAAGACAC TGCACACACA GAAGCCGCCA TGCATCATTC
22851	CACAAACACC GCAGTGACCA ATGTAGGGAC TTCCGGGTCT GGACATAAAT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
22901	CACAATCCTC TGTCCTAGCT GACTCAGAGA CATCGAAAGC CACACCTCTG
22951	ATGAGTACCA CCTCCACCCT GGGGGACACA AGTGTTTCCA CATCAACTCC
23001	TAATATCTCT CAGACTAACC AAATTCAAAC AGAGCCAACA GCATCCCTGA
23051	GCCCTAGACT GAGGGAGAGC AGCACGTCTG AGAAGACCAG CTCAACAACA
23101	GAGACAAATA CTGCCTTTTC TTATGTGCCC ACAGGTGCTA TTACTCAGGC
23151	CTCCAGAACA GAAATCTCCT CTAGCAGAAC ATCCATCTCA GACCTTGATC
23201	GGTCCACAAT AGCACCCGAC ATCTCCACAG GAATGATCAC CAGGCTCTTC
23251	ACCTCCCCCA TCATGACAAA ATCTGCAGAA ATGACCGTCA CCACTCAAAC
23301	AACTACTCCT GGGGCTACAT CACAGGGTAT CCTTCCCTGG GACACATCAA
23351	CCACACTTTT CCAGGGAGGG ACTCATTCAA CCGTGTCTCA GGGATTCCCA
23401	CACTCAGAGA TAACCACTCT TCGGAGCAGA ACCCCTGGAG ATGTGTCATG
23451	GATGACAACT CCCCCTGTGG AAGAAACCAG CTCTGGGTTT TCCCTGATGT
23501	CACCTTCCAT GACATCCCCT TCTCCTGTTT CCTCCACATC ACCAGAGAGC
23551	ATCCCCTCCT CTCCTCTCCC TGTGACTGCA CTTCTTACTT CTGTTCTGGT
23601	GACAACCACA AATGTATTGG GCACAACAAG CCCAGAGCCC GTAACGAGTT
23651	CACCTCCAAA TTTAAGCAGC CCCACACAGG AGAGACTGAC CACTTACAAA
23701	GACACTGCGC ACACAGAAGC CATGCATGCT TCCATGCATA CAAACACTGC
23751	AGTGGCCAAC GTGGGGACCT CCATTTCTGG ACATGAATCA CAATCTTCTG
23801	TCCCAGCTGA TTCAGACACA TCCAAAGCCA CATCTCCAAT GGGTACCACC
23851	TTCGCCATGG GGGATACAAG TGTTTCTACA TCAACTCCTG CCTTCTTTGA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
23901	GACTAGAATT CAGACTGAAT CAACATCCTC TTTGATTCCT GGATTAAGGG
23951	ACACCAGGAC GTCTGAGGAG ATCAACACTG TGACAGAGAC CAGCACTGTC
24001	CTTTCAGAAG TGCCCACTAC TACTACTACT GAGGTCTCCA GGACAGAAGT
24051	TATCACTTCC AGCAGAACAA CCATCTCAGG GCCTGATCAT TCCAAAATGT
24101	CACCCTACAT CTCCACAGAA ACCATCACCA GGCTCTCCAC TTTTCCTTTT
24151	GTAACAGGAT CCACAGAAAT GGCCATCACC AACCAAACAG GTCCTATAGG
24201	GACTATCTCA CAGGCTACCC TTACCCTGGA CACATCAAGC ACAGCTTCCT
24251	GGGAAGGGAC TCACTCACCT GTGACTCAGA GATTTCCACA CTCAGAGGAG
24301	ACCACTACTA TGAGCAGAAG TACTAAGGGC GTGTCATGGC AAAGCCCTCC
24351	CTCTGTGGAA GAAACCAGTT CTCCTTCTTC CCCAGTGCCT TTACCTGCAA
24401	TAACCTCACA TTCATCTCTT TATTCCGCAG TATCAGGAAG TAGCCCCACT
24451	TCTGCTCTCC CTGTGACTTC CCTTCTCACC TCTGGCAGGA GGAAGACCAT
24501	AGACATGTTG GACACACACT CAGAACTTGT GACCAGCTCC TTACCAAGTG
24551	CAAGTAGCTT CTCAGGTGAG ATACTCACTT CTGAAGCCTC CACAAATACA
24601	GAGACAATTC ACTTTTCAGA GAACACAGCA GAAACCAATA TGGGGACCAC
24651	CAATTCTATG CATAAACTAC ATTCCTCTGT CTCAATCCAC TCCCAGCCAT
24701	CCGGACACAC ACCTCCAAAG GTTACTGGAT CTATGATGGA GGACGCTATT
24751	GTTTCCACAT CAACACCTGG TTCTCCTGAG ACTAAAAATG TTGACAGAGA
24801	CTCAACATCC CCTCTGACTC CTGAACTGAA AGAGGACAGC ACCGCCCTGG
24851	TGATGAACTC AACTACAGAG TCAAACACTG TTTTCTCCAG TGTGTCCCTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
24901	GATGCTGCTA CTGAGGTCTC CAGGGCAGAA GTCACCTACT ATGATCCTAC
24951	ATTCATGCCA GCTTCTGCTC AGTCAACAAA GTCCCCAGAC ATTTCACCTG
25001	AAGCCAGCAG CAGTCATTCT AACTCTCCTC CCTTGACAAT ATCTACACAC
25051	AAGACCATCG CCACACAAAC AGGTCCTTCT GGGGTGACAT CTCTTGGCCA
25101	ACTGACCCTG GACACATCAA CCATAGCCAC CTCAGCAGGA ACTCCATCAG
25151	CCAGAACTCA GGATTTTGTA GATTCAGAAA CAACCAGTGT CATGAACAAT
25201	GATCTCAATG ATGTGTTGAA GACAAGCCCT TTCTCTGCAG AAGAAGCCAA
25251	CTCTCTCTCT TCTCAGGCAC CTCTCCTTGT GACAACCTCA CCTTCTCCTG
25301	TAACTTCCAC ATTGCAAGAG CACAGTACCT CCTCTCTTGT TTCTGTGACC
25351	TCAGTACCCA CCCCTACACT GGCGAAGATC ACAGACATGG ACACAAACTT
25401	AGAACCTGTG ACTCGTTCAC CTCAAAATTT AAGGAACACC TTGGCCACTT
25451	CAGAAGCCAC CACAGATACA CACACAATGC ATCCTTCTAT AAACACAGCA
25501	GTGGCCAATG TGGGGACCAC CAGTTCACCA AATGAATTCT ATTTTACTGT
25551	CTCACCTGAC TCAGACCCAT ATAAAGCCAC ATCCGCAGTA GTTATCACTT
25601	CCACCTCGGG GGACTCAATA GTTTCCACAT CAATGCCTAG ATCCTCTGCG
25651	ATGAAAAAGA TTGAGTCTGA GACAACTTTC TCCCTGATAT TTAGACTGAG
25701	GGAGACTAGC ACCTCCCAGA AAATTGGCTC ATCCTCAGAC ACAAGCACGG
25751	TCTTTGACAA AGCATTCACT GCTGCTACTA CTGAGGTCTC CAGAACAGAA
25801	CTCACCTCCT CTAGCAGAAC ATCCATCCAA GGCACTGAAA AGCCCACAAT
25851	GTCACCGGAC ACCTCCACAA GATCTGTCAC CATGCTTTCT ACTTTTGCTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
25901	GCCTGACAAA ATCCGAAGAA AGGACCATTG CCACCCAAAC AGGTCCTCAT
25951	AGGGCGACAT CACAGGGTAC CCTTACCTGG GACACATCAA TCACAACCTC
26001	ACAGGCAGGG ACCCACTCAG CTATGACTCA TGGATTTTCA CAATTAGATT
26051	TGTCCACTCT TACGAGTAGA GTTCCTGAGT ACATATCAGG GACAAGCCCA
26101	CCCTCTGTGG AAAAAACCAG CTCTTCCTCT TCCCTTCTGT CTTTACCAGC
26151	AATAACCTCA CCGTCCCCTG TACCTACTAC ATTACCAGAA AGTAGGCCGT
26201	CTTCTCCTGT TCATCTGACT TCACTCCCCA CCTCTGGCCT AGTGAAGACC
26251	ACAGATATGC TGGCATCTGT GGCCAGTTTA CCTCCAAACT TGGGCAGCAC
26301	CTCACATAAG ATACCGACTA CTTCAGAAGA CATTAAAGAT ACAGAGAAAA
26351	TGTATCCTTC CACAAACATA GCAGTAACCA ATGTGGGGAC CACCACTTCT
26401	GAAAAGGAAT CTTATTCGTC TGTCCCAGCC TACTCAGAAC CACCCAAAGT
26451	CACCTCTCCA ATGGTTACCT CTTTCAACAT AAGGGACACC ATTGTTTCCA
26501	CATCCATGCC TGGCTCCTCT GAGATTACAA GGATTGAGAT GGAGTCAACA
26551	TTCTCCCTGG CTCATGGGCT GAAGGGAACC AGCACCTCCC AGGACCCCAT
26601	CGTATCCACA GAGAAAAGTG CTGTCCTTCA CAAGTTGACC ACTGGTGCTA
26651	CTGAGACCTC TAGGACAGAA GTTGCCTCTT CTAGAAGAAC ATCCATTCCA
26701	GGCCCTGATC ATTCCACAGA GTCACCAGAC ATCTCCACTG AAGTGATCCC
26751	CAGCCTGCCT ATCTCCCTTG GCATTACAGA ATCTTCAAAT ATGACCATCA
26801	TCACTCGAAC AGGTCCTCCT CTTGGCTCTA CATCACAGGG CACATTTACC
26851	TTGGACACAC CAACTACATC CTCCAGGGCA GGAACACACT CGATGGCGAC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
26901	TCAGGAATTT CCACACTCAG AAATGACCAC TGTCATGAAC AAGGACCCTG
26951	AGATTCTATC ATGGACAATC CCTCCTTCTA TAGAGAAAAC CAGCTTCTCC
27001	TCTTCCCTGA TGCCTTCACC AGCCATGACT TCACCTCCTG TTTCCTCAAC
27051	ATTACCAAAG ACCATTCACA CCACTCCTTC TCCTATGACC TCACTGCTCA
27101	CCCCTAGCCT AGTGATGACC ACAGACACAT TGGGCACAAG CCCAGAACCT
27151	ACAACCAGTT CACCTCCAAA TTTGAGCAGT ACCTCACATG AGATACTGAC
27201	AACAGATGAA GACACCACAG CTATAGAAGC CATGCATCCT TCCACAAGCA
27251	CAGCAGCGAC TAATGTGGAA ACCACCAGTT CTGGACATGG GTCACAATCC
27301	TCTGTCCTAG CTGACTCAGA AAAAACCAAG GCCACAGCTC CAATGGATAC
27351	CACCTCCACC ATGGGGCATA CAACTGTTTC CACATCAATG TCTGTTTCCT
27401	CTGAGACTAC AAAAATTAAG AGAGAGTCAA CATATTCCTT GACTCCTGGA
27451	CTGAGAGAGA CCAGCATTTC CCAAAATGCC AGCTTTTCCA CTGACACAAG
27501	TATTGTTCTT TCAGAAGTCC CCACTGGTAC TACTGCTGAG GTCTCCAGGA
27551	CAGAAGTCAC CTCCTCTGGT AGAACATCCA TCCCTGGCCC TTCTCAGTCC
27601	ACAGTTTTGC CAGAAATATC CACAAGAACA ATGACAAGGC TCTTTGCCTC
27651	GCCCACCATG ACAGAATCAG CAGAAATGAC CATCCCCACT CAAACAGGTC
27701	CTTCTGGGTC TACCTCACAG GATACCCTTA CCTTGGACAC ATCCACCACA
27751	AAGTCCCAGG CAAAGACTCA TTCAACTTTG ACTCAGAGAT TTCCACACTC
27801	AGAGATGACC ACTCTCATGA GCAGAGGTCC TGGAGATATG TCATGGCAAA
27851	GCTCTCCCTC TCTGGAAAAT CCCAGCTCTC TCCCTTCCCT GCTGTCTTTA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
27901	CCTGCCACAA CCTCACCTCC TCCCATTTCC TCCACATTAC CAGTGACTAT
27951	CTCCTCCTCT CCTCTTCCTG TGACTTCACT TCTCACCTCT AGCCCGGTAA
28001	CGACCACAGA CATGTTACAC ACAAGCCCAG AACTTGTAAC CAGTTCACCT
28051	CCAAAGCTGA GCCACACTTC AGATGAGAGA CTGACCACTG GCAAGGACAC
28101	CACAAATACA GAAGCTGTGC ATCCTTCCAC AAACACAGCA GCGTCCAATG
28151	TGGAGATTCC CAGCTCTGGA CATGAATCCC CTTCCTCTGC CTTAGCTGAC
28201	TCAGAGACAT CCAAAGCCAC ATCACCAATG TTTATTACCT CCACCCAGGA
28251	GGATACAACT GTTGCCATAT CAACCCCTCA CTTCTTGGAG ACTAGCAGAA
28301	TTCAGAAAGA GTCAATTTCC TCCCTGAGCC CTAAATTGAG GGAGACAGGC
28351	AGTTCTGTGG AGACAAGCTC AGCCATAGAG ACAAGTGCTG TCCTTTCTGA
28401	AGTGTCCGTT GGTGCTACTA CTGAGATCTC CAGGACAGAA GTCACCTCCT
28451	CTAGCAGAAC ATCCATCTCT GGTTCTGCTG AGTCCACAAT GTTGCCAGAA
28501	ATATCCACCA CAAGAAAAAT CATTAAGTTC CCTACTTCCC CCATCCTGGC
28551	AGAATCATCA GAAATGACCA TCAAGACCCA AACAAGTCCT CCTGGGTCTA
28601	CATCAGAGAG TACCTTTACA TTAGACACAT CAACCACTCC CTCCTTGGTA
28651	ATAACCCATT CGACTATGAC TCAGAGATTG CCACACTCAG AGATAACCAC
28701	TCTTGTGAGT AGAGGTGCTG GGGATGTGCC ACGGCCCAGC TCTCTCCCTG
28751	TGGAAGAAAC AAGCCCTCCA TCTTCCCAGC TGTCTTTATC TGCCATGATC
28801	TCACCTTCTC CTGTTTCTTC CACATTACCA GCAAGTAGCC ACTCCTCTTC
28851	TGCTTCTGTG ACTTCACTTC TCACACCAGG CCAAGTGAAG ACTACTGAGG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
28901	TGTTGGACGC AAGTGCAGAA CCTGAAACCA GTTCACCTCC AAGTTTGAGC
28951	AGCACCTCAG TTGAAATACT GGCCACCTCT GAAGTCACCA CAGATACGGA
29001	GAAAATTCAT CCTTTCTCAA ACACGGCAGT AACCAAAGTT GGAACTTCCA
29051	GTTCTGGACA TGAATCCCCT TCCTCTGTCC TACCTGACTC AGAGACAACC
29101	AAAGCCACAT CGGCAATGGG TACCATCTCC ATTATGGGGG ATACAAGTGT
29151	TTCTACATTA ACTCCTGCCT TATCTAACAC TAGGAAAATT CAGTCAGAGC
29201	CAGCTTCCTC ACTGACCACC AGATTGAGGG AGACCAGCAC CTCTGAAGAG
29251	ACCAGCTTAG CCACAGAAGC AAACACTGTT CTTTCTAAAG TGTCCACTGG
29301	TGCTACTACT GAGGTCTCCA GGACAGAAGC CATCTCCTTT AGCAGAACAT
29351	CCATGTCAGG CCCTGAGCAG TCCACAATGT CACAAGACAT CTCCATAGGA
29401	ACCATCCCCA GGATTTCTGC CTCCTCTGTC CTGACAGAAT CTGCAAAAAT
29451	GACCATCACA ACCCAAACAG GTCCTTCGGA GTCTACACTA GAAAGTACCC
29501	TTAATTTGAA CACAGCAACC ACACCCTCTT GGGTGGAAAC CCACTCTATA
29551	GTAATTCAGG GATTTCCACA CCCAGAGATG ACCACTTCCA TGGGCAGAGG
29601	TCCTGGAGGT GTGTCATGGC CTAGCCCTCC CTTTGTGAAA GAAACCAGCC
29651	CTCCATCCTC CCCGCTGTCT TTACCTGCCG TGACCTCACC TCATCCTGTT
29701	TCCACCACAT TCCTAGCACA TATCCCCCCC TCTCCCCTTC CTGTGACTTC
29751	ACTTCTCACC TCTGGCCCGG CGACAACCAC AGATATCTTG GGTACAAGCA
29801	CAGAACCTGG AACCAGTTCA TCTTCAAGTT TGAGCACCAC CTCCCATGAG
29851	AGACTGACCA CTTACAAAGA CACTGCACAT ACAGAAGCCG TGCATCCTTC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
29901	CACAAACACA GGAGGGACCA ATGTGGCAAC CACCAGCTCT GGATATAAAT
29951	CACAGTCCTC TGTCCTAGCT GACTCATCTC CAATGTGTAC CACCTCCACC
30001	ATGGGGGATA CAAGTGTTCT CACATCAACT CCTGCCTTCC TTGAGACTAG
30051	GAGGATTCAG ACAGAGCTAG CTTCCTCCCT GACCCCTGGA TTGAGGGAGT
30101	CCAGTGGCTC TGAAGGGACC AGCTCAGGCA CCAAGATGAG CACTGTCCTC
30151	TCTAAAGTGC CCACTGGTGC TACTACTGAG ATCTCCAAGG AAGACGTCAC
30201	CTCCATCCCA GGTCCCGCTC AATCCACAAT ATCACCAGAC ATCTCCACAA
30251	GAACCGTCAG CTGGTTCTCT ACATCCCCTG TCATGACAGA ATCAGCAGAA
30301	ATAACCATGA ACACCCATAC AAGTCCTTTA GGGGCCACAA CACAAGGCAC
30351	CAGTACTTTG GCCACGTCAA GCACAACCTC TTTGACAATG ACACACTCAA
30401	CTATATCTCA AGGATTTTCA CACTCACAGA TGAGCACTCT TATGAGGAGG
30451	GGTCCTGAGG ATGTATCATG GATGAGCCCT CCCCTTCTGG AAAAAACTAG
30501	ACCTTCCTTT TCTCTGATGT CTTCACCAGC CACAACTTCA CCTTCTCCTG
30551	TTTCCTCCAC ATTACCAGAG AGCATCTCTT CCTCTCCTCT TCCTGTGACT
30601	TCACTCCTCA CGTCTGGCTT GGCAAAAACT ACAGATATGT TGCACAAAAG
30651	CTCAGAACCT GTAACCAACT CACCTGCAAA TTTGAGCAGC ACCTCAGTTG
30701	AAATACTGGC CACCTCTGAA GTCACCACAG ATACAGAGAA AACTCATCCT
30751	TCTTCAAACA GAACAGTGAC CGATGTGGGG ACCTCCAGTT CTGGACATGA
30801	ATCCACTTCC TTTGTCCTAG CTGACTCACA GACATCCAAA GTCACATCTC
30851	CAATGGTTAT TACCTCCACC ATGGAGGATA CGAGTGTCTC CACATCAACT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
30901	CCTGGCTTTT TTGAGACTAG CAGAATTCAG ACAGAACCAA CATCCTCCCT
30951	GACCCTTGGA CTGAGAAAGA CCAGCAGCTC TGAGGGGACC AGCTTAGCCA
31001	CAGAGATGAG CACTGTCCTT TCTGGAGTGC CCACTGGTGC CACTGCTGAA
31051	GTCTCCAGGA CAGAAGTCAC CTCCTCTAGC AGAACATCCA TCTCAGGCTT
31101	TGCTCAGCTC ACAGTGTCAC CAGAGACTTC CACAGAAACC ATCACCAGAC
31151	TCCCTACCTC CAGCATAATG ACAGAATCAG CAGAAATGAT GATCAAGACA
31201	CAAACAGATC CTCCTGGGTC TACACCAGAG AGTACTCATA CTGTGGACAT
31251	ATCAACAACA CCCAACTGGG TAGAAACCCA CTCGACTGTG ACTCAGAGAT
31301	TTTCACACTC AGAGATGACC ACTCTTGTGA GCAGAAGCCC TGGTGATATG
31351	TTATGGCCTA GTCAATCCTC TGTGGAAGAA ACCAGCTCTG CCTCTTCCCT
31401	GCTGTCTCTG CCTGCCACGA CCTCACCTTC TCCTGTTTCC TCTACATTAG
31451	TAGAGGATTT CCCTTCCGCT TCTCTTCCTG TGACTTCTCT TCTCACCCCT
31501	GGCCTGGTGA TAACCACAGA CAGGATGGGC ATAAGCAGAG AACCTGGAAC
31551	CAGTTCCACT TCAAATTTGA GCAGCACCTC CCATGAGAGA CTGACCACTT
31601	TGGAAGACAC TGTAGATACA GAAGACATGC AGCCTTCCAC ACACACAGCA
31651	GTGACCAACG TGAGGACCTC CATTTCTGGA CATGAATCAC AATCTTCTGT
31701	CCTATCTGAC TCAGAGACAC CCAAAGCCAC ATCTCCAATG GGTACCACCT
31751	ACACCATGGG GGAAACGAGT GTTTCCATAT CCACTTCTGA CTTCTTTGAG
31801	ACCAGCAGAA TTCAGATAGA ACCAACATCC TCCCTGACTT CTGGATTGAG
31851	GGAGACCAGC AGCTCTGAGA GGATCAGCTC AGCCACAGAG GGAAGCACTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
31901	TCCTTTCTGA AGTGCCCAGT GGTGCTACCA CTGAGGTCTC CAGGACAGAA
31951	GTGATATCCT CTAGGGGAAC ATCCATGTCA GGGCCTGATC AGTTCACCAT
32001	ATCACCAGAC ATCTCTACTG AAGCGATCAC CAGGCTTTCT ACTTCCCCCA
32051	TTATGACAGA ATCAGCAGAA AGTGCCATCA CTATTGAGAC AGGTTCTCCT
32101	GGGGCTACAT CAGAGGGTAC CCTCACCTTG GACACCTCAA CAACAACCTT
32151	TTGGTCAGGG ACCCACTCAA CTGCATCTCC AGGATTTTCA CACTCAGAGA
32201	TGACCACTCT TATGAGTAGA ACTCCTGGAG ATGTGCCATG GCCGAGCCTT
32251	CCCTCTGTGG AAGAAGCCAG CTCTGTCTCT TCCTCACTGT CTTCACCTGC
32301	CATGACCTCA ACTTCTTTTT TCTCCACATT ACCAGAGAGC ATCTCCTCCT
32351	CTCCTCATCC TGTGACTGCA CTTCTCACCC TTGGCCCAGT GAAGACCACA
32401	GACATGTTGC GCACAAGCTC AGAACCTGAA ACCAGTTCAC CTCCAAATTT
32451	GAGCAGCACC TCAGCTGAAA TATTAGCCAC GTCTGAAGTC ACCAAAGATA
32501	GAGAGAAAAT TCATCCCTCC TCAAACACAC CTGTAGTCAA TGTAGGGACT
32551	GTGATTTATA AACATCTATC CCCTTCCTCT GTTTTGGCTG ACTTAGTGAC
32601	AACAAAACCC ACATCTCCAA TGGCTACCAC CTCCACTCTG GGGAATACAA
32651	GTGTTTCCAC ATCAACTCCT GCCTTCCCAG AAACTATGAT GACACAGCCA
32701	ACTTCCTCCC TGACTTCTGG ATTAAGGGAG ATCAGTACCT CTCAAGAGAC
32751	CAGCTCAGCA ACAGAGAGAA GTGCTTCTCT TTCTGGAATG CCCACTGGTG
32801	CTACTACTAA GGTCTCCAGA ACAGAAGCCC TCTCCTTAGG CAGAACATCC
32851	ACCCCAGGTC CTGCTCAATC CACAATATCA CCAGAAATCT CCACGGAAAC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)

32901 CATCACTAGA ATTTCTACTC CCCTCACCAC GACAGGATCA GCAGAAATGA

32951 CCATCACCCC CAAAACAGGT CATTCTGGGG CATCCTCACA AGGTACCTTT

33001 ACCTTGGACA CATCAAGCAG AGCCTCCTGG CCAGGAACTC ACTCAGCTGC

33051 AACTCACAGA TCTCCACACT CAGGGATGAC CACTCCTATG AGCAGAGGTC

33101 CTGAGGATGT GTCATGGCCA AGCCGCCCAT CAGTGGAAAA AACTAGCCCT

33151 CCATCTTCCC TGGTGTCTTT ATCTGCAGTA ACCTCACCTT CGCCACTTTA

33201 TTCCACACCA TCTGAGAGTA GCCACTCATC TCCTCTCCGG GTGACTTCTC

33251 TTTTCACCCC TGTCATGATG AAGACCACAG ACATGTTGGA CACAAGCTTG

33301 GAACCTGTGA CCACTTCACC TCCCAGTATG AATATCACCT CAGATGAGAG

33351 TCTGGCCACT TCTAAAGCCA CCATGGAGAC AGAGGCAATT CAGCTTTCAG

[0056] 33401 AAAACACAGC TGTGACTCAG ATGGGCACCA TCAGCGCTAG ACAAGAATTC

33451 TATTCCTCTT ATCCAGGCCT CCCAGAGCCA TCCAAAGTGA CATCTCCAGT

33501 GGTCACCTCT TCCACCATAA AAGACATTGT TTCTACAACC ATACCTGCTT

33551 CCTCTGAGAT AACAAGAATT GAGATGGAGT CAACATCCAC CCTGACCCCC

33601 ACACCAAGGG AGACCAGCAC CTCCCAGGAG ATCCACTCAG CCACAAAGCC

33651 AAGCACTGTT CCTTACAAGG CACTCACTAG TGCCACGATT GAGGACTCCA

33701 TGACACAAGT CATGTCCTCT AGCAGAGGAC CTAGCCCTGA TCAGTCCACA

33751 ATGTCACAAG ACATATCCAG TGAAGTGATC ACCAGGCTCT CTACCTCCCC

33801 CATCAAGGCA GAATCTACAG AAATGACCAT TACCACCCAA ACAGGTTCTC

33851 CTGGGGCTAC ATCAAGGGGT ACCCTTACCT TGGACACTTC AACAACTTTT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

33901 ATGTCAGGGA CCCACTCAAC TGCATCTCAA GGATTTTCAC ACTCACAGAT

33951 GACCGCTCTT ATGAGTAGAA CTCCTGGAGA TGTGCCATGG CTAAGCCATC

34001 CCTCTGTGGA AGAAGCCAGC TCTGCCTCTT TCTCACTGTC TTCACCTGTC

34051 ATGACCTCAT CTTCTCCCGT TTCTTCCACA TTACCAGACA GCATCCACTC

34101 TTCTTCGCTT CCTGTGACAT CACTTCTCAC CTCAGGGCTG GTGAAGACCA

34151 CAGAGCTGTT GGGCACAAGC TCAGAACCTG AAACCAGTTC ACCCCCAAAT

34201 TTGAGCAGCA CCTCAGCTGA AATACTGGCC ACCACTGAAG TCACTACAGA

34251 TACAGAGAAA CTGGAGATGA CCAATGTGGT AACCTCAGGT TATACACATG

34301 AATCTCCTTC CTCTGTCCTA GCTGACTCAG TGACAACAAA GGCCACATCT

34351 TCAATGGGTA TCACCTACCC CACAGGAGAT ACAAATGTTC TCACATCAAC

34401 CCCTGCCTTC TCTGACACCN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

34451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

34501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNCGGAAA CCAAGTTTCT

Exon 4

34551 AACCAACCCC TCCTTTTTGA CCCCAGTAGG ATTCAAACAA AGTCAAAGCT

34601 CTCACTGACT CCTGGGTTGA TGGAGACCAG CATCTCTGAA GAGACCAGCT

34651 CTGCCACAGA AAAAAGCACT GTCCTTTCTA GTGTGCCCAC TGGTGCTACT

34701 ACTGAGGTCT CCAGGACAGA AGCCATCTCT TCTAGCAGAA CATCCATCCC

34751 AGGCCCTGCT CAATCCACAA TGTCATCAGA CACCTCCATG GAAACCATCA

34801 CTAGAATTTC TACCCCCCTC ACAAGGAAAG AATCAACAGA CATGGCCATC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
34851	ACCCCCAAAA CAGGTCCTTC TGGGGCTACC TCGCAGGGTA CCTTTACCTT
34901	GGACTCATCA AGCACAGCCT CCTGGCCAGG AACTCACTCA GCTACAACTC
34951	AGAGATTTCC ACAGTCAGTG GTGACAACTC CTATGAGCAG AGGTCCTGAG
35001	GATGTGTCAT GGCCAAGCCC GCTGTCTGTG GAAAAAAACA GCCCTCCATC
35051	TTCCCTGGTA TCTTCATCTT CAGTAACCTC ACCTTCGCCA CTTTATTCCA
35101	CACCATCTGG GAGTAGCCAC TCCTCTCCTG TCCCTGTCAC TTCTCTTTTC
35151	ACCTCTATCA TGATGAAGGC CACAGACATG TTGGATGCAA GTTTGGAACC
35201	TGAGACCACT TCAGCTCCCA ATATGAATAT CACCTCAGAT GAGAGTCTGG
35251	CCACTTCTAA AGCCACCACG GAGACAGAGG CAATTCACGT TTTTGAAAAT
35301	ACAGCAGCGT CCCATGTGGA AACCACCAGT GCTACAGAGG AACTCTATTC
35351	CTCTTCCCCA GGCTTCTCAG AGCCAACAAA AGTGATATCT CCAGTGGTCA
35401	CCTCTTCCTC TATAAGAGAC AACATGGTTT CCACAACAAT GCCTGGCTCC
35451	TCTGGCATTA CAAGGATTGA GATAGAGTCA ATGTCATCTC TGACCCCTGG
35501	ACTGAGGGAG ACCAGAACCT CCCAGGACAT CACCTCATCC ACAGAGACAA
35551	GCACTGTCCT TTACAAGATG TCCTCTGGTG CCACTCCTGA GGTCTCCAGG
35601	ACAGAAGTTA TGCCCTCTAG CAGAACATCC ATTCCTGGCC CTGCTCAGTC
35651	CACAATGTCA CTAGACATCT CCGATGAAGT TGTCACCAGG CTGTCTACCT
35701	CTCCCATCAT GACAGAATCT GCAGAAATAA CCATCACCAC CCAAACAGGT
35751	TATTCTCTGG CTACATCCCA GGTTACCCTT CCCTTGGGCA CCTCAATGAC
35801	CTTTTTGTCA GGGACCCACT CAACTATGTC TCAAGGACTT TCACACTCAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
35851	AGATGACCAA TCTTATGAGC AGGGGTCCTG AAAGTCTGTC ATGGACGAGC
35901	CCTCGCTTTG TGGAAACAAC TAGATCTTCC TCTTCTCTGA CATCATTACC
35951	TCTCACGACC TCACTTTCTC CTGTGTCCTC CACATTACTA GACAGTAGCC
36001	CCTCCTCTCC TCTTCCTGTG ACTTCACTTA TCCTCCCAGG CCTGGTGAAG
36051	ACTACAGAAG TGTTGGATAC AAGCTCAGAG CCTAAAACCA GTTCATCTCC
36101	AAATTTGAGC AGCACCTCAG TTGAAATACC GGCCACCTCT GAAATCATGA
36151	CAGATACAGA GAAAATTCAT CCTTCCTCAA ACACAGCGGT GGCCAAAGTG
36201	AGGACCTCCA GTTCTGTTCA TGAATCTCAT TCCTCTGTCC TAGCTGACTC
36251	AGAAACAACC ATAACCATAC CTTCAATGGG TATCACCTCC GCTGTGGACG
36301	ATACCACTGT TTTCACATCA AATCCTGCCT TCTCTGAGAC TAGGAGGATT
36351	CCGACAGAGC CAACATTCTC ATTGACTCCT GGATTCAGGG AGACTAGCAC
36401	CTCTGAAGAG ACCACCTCAA TCACAGAAAC AAGTGCAGTC CTTTATGGAG
36451	TGCCCACTAG TGCTACTACT GAAGTCTCCA TGACAGAAAT CATGTCCTCT
36501	AATAGAACAC ACATCCCTGA CTCTGATCAG TCCACGATGT CTCCAGACAT
36551	CATCACTGAA GTGATCACCA GGCTCTCTTC CTCATCCATG ATGTCAGAAT
36601	CAACACAAAT GACCATCACC ACCCAAAAAA GTTCTCCTGG GGCTACAGCA
36651	CAGAGTACTC TTACCTTGGC CACAACAACA GCCCCCTTGG CAAGGACCCA
36701	CTCAACTGTT CCTCCTAGAT TTTTACACTC AGAGATGACA ACTCTTATGA
36751	GTAGGAGTCC TGAAAATCCA TCATGGAAGA GCTCTCCCTT TGTGGAAAAA
36801	ACTAGCTCTT CATCTTCTCT GTTGTCCTTA CCTGTCACGA CCTCACCTTC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
36851	TGTTTCTTCC ACATTACCGC AGAGTATCCC TTCCTCCTCT TTTTCTGTGA
36901	CTTCACTCCT CACCCCAGGC ATGGTGAAGA CTACAGACAC AAGCACAGAA
36951	CCTGGAACCA GTTTATCTCC AAATCTGAGT GGCACCTCAG TTGAAATACT
37001	GGCTGCCTCT GAAGTCACCA CAGATACAGA GAAAATTCAT CCTTCTTCAA
37051	GCATGGCAGT GACCAATGTG GGAACCACCA GTTCTGGACA TGAACTATAT
37101	TCCTCTGTTT CAATCCACTC GGAGCCATCC AAGGCTACAT ACCCAGTGGG
37151	TACTCCCTCT TCCATGGCTG AAACCTCTAT TTCCACATCA ATGCCTGCTA
37201	ATTTTGAGAC CACAGGATTT GAGGCTGAGC CATTTTCTCA TTTGACTTCT
37251	GGATTTAGGA AGACAAACAT GTCCCTGGAC ACCAGCTCAG TCACACCAAC
37301	AAATACACCT TCTTCTCCTG GGTCCACTCA CCTTTTACAG AGTTCCAAGA
37351	CTGATTTCAC CTCTTCTGCA AAAACATCAT CCCCAGACTG GCCTCCAGCC
37401	TCACAGTATA CTGAAATTCC AGTGGACATA ATCACCCCCT TTAATGCTTC
37451	TCCATCTATT ACGGAGTCCA CTGGGATAAC CTCCTTCCCA GAATCCAGGT
37501	TTACTATGTC TGTAACAGAA AGTACTCATC ATCTGAGTAC AGATTTGCTG
37551	CCTTCAGCTG AGACTATTTC CACTGGCACA GTGATGCCTT CTCTATCAGA
37601	GGCCATGACT TCATTTGCCA CCACTGGAGT TCCACGAGCC ATCTCAGGTT
37651	CAGGTAGTCC ATTCTCTAGG ACAGAGTCAG GCCCTGGGGA TGCTACTCTG
37701	TCCACCATTG CAGAGAGCCT GCCTTCATCC ACTCCTGTGC CATTCTCCTC
37751	TTCAACCTTC ACTACCACTG ATTCTTCAAC CATCCCAGCC CTCCATGAGA
37801	TAACTTCCTC TTCAGCTACC CCATATAGAG TGGACACCAG TCTTGGGACA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

37851 GAGAGCAGCA CTACTGAAGG ACGCTTGGTT ATGGTCAGTA CTTTGGACAC

37901 TTCAAGCCAA CCAGGCAGGA CATCTTCAAC ACCCATTTTG GATACCAGAA

37951 TGACAGAGAG CGTTGAGCTG GGAACAGTGA CAAGTGCTTA TCAAGTTCCT

38001 TCACTCTCAA CACGGTTGAC AAGAGAATGC GCATGGCGAG AAGGGAGAAG

38051 TGTAGTTGGA TGGATAAAAG GAAGAATGGA GAGAAGAGTG AATGGAAGGA

38101 AGCAAAGATG AAGCGGAGGA AGGATAGATG CACAGAAGGA AGGATGAAAA

38151 GAAAGAAAGA TGATGGAAGA CAGGATTGAA GGGGATATAG ATTGAAGGAA

38201 AGAAAGGTAG AAGGATGAAA TGAAGTAAAG ATTGAAGAAA AGATGGATGG

38251 AAAGAAGAAA GGAGGGTGCA CAAAAAATCT CACACTTCAC CACATATGAT

38301 TCATCCATAT AAGAAAAAAC CACTTGTACC CTCAAAGCTA TTGAAATACA

38351 AACTTTTAAA TTAAAATTTT AAAAAGCAAG AGAAAGGAAA GAAGGGAGGA

38401 AAGACAAAAG GAAGAATGGG TGATAGAAGG AAAGAATAAA AGGAAGAAAA

38451 AATGGAAGAA TAGATGATCA GATCTAGGGA TGAATGAAAG GAAGGATGGA

38501 CAAATCTATA GGTAGGTGGA TGGATCTATG GACAGGTGTG GCCACTTATG

38551 GCACATAGTC CCAGCTCCAG TTCATACTGA TGGACTTGAG GAGTGTTTGT

38601 GGCCAATGAA GTGGATCCAT TTAGACAGTG CTCTTCTTCT GAATGAGATG

Exon 5

38651 AGTTACCCCA GTTTTTCTCC CCACCTTCAT CTTCAGGAAC TGATGGCATT

38701 ATGGAACACA TCACAAAAAT ACCCAATGAA GCAGCACACA GAGGTACCAT

38751 AAGACCAGTC AAAGGCCCTC AGACATCCAC TTCGCCTGCC AGTCCTAAAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

38801 GTAGGTTTAA CTTTGCTTAC CTCCCAGTAA TGCCACTCGT GACCATATTT

38851 CCTCCTCCAG AGAGACAAAA TGTTTGTATT CTTTAGAGAG AGAATTGTGT

38901 GTGGTTGTCA TAGGTTTCCC TGTCTGAACT GAGTCTTTAT CTAATGGTTA

38951 CCAGGCAGAT GTTACCACTG TCTCTTTCTC CTCATGGCAT GCTGAGTGAG

39001 TTTTGTCCAA CATCAAATAT TCACAAATTT GTCCATATTA ACCAAATTTT

39051 AAAAATGCTC ATTAAAAACT TACTATGAGC TGGGCGCAGT GGCTCATGCC

39101 TGTAATCCCA ATACTTTGGG AGGCTGAGCT GGGTGGATCA CCAGAGGTCA

39151 AAAATTCGAG ACCAGTCTGA CCAAAATGGT GAAACTCCAT CTCTACTGAA

39201 AATATAAAAA TTAGCCGGGC ATGGTGGCAC ACACCGTAAT CACAGCTACT

39251 CAGGAGGCTG AGGCAAGAGA GTCACTTGAA CCACAGGAGG TAGAGGCTGC

39301 AGTGAGCTGA GCATTGTGCC AATGCACTCC AGCCTGGGTG GCAGAGCAAG

39351 ACTCCAGCTC AGAAATAAAT AATATATTAT ATATATATAT ATATGTTTTA

39401 TTTAGATGGA ATATACTATA TATATATGTA TATATATATG TATGTATATA

39451 TATATATGTA TGTATATATA TATATATATA TATATATATA TATATAGAGA

39501 GAGAGAGAGA GAGAGAGAGA GAGAGAGACA GAGTATGTCT GAGAATGCAT

39551 CCCGATAGTT CTAGCAAGGT AGGAAAAGGA AGTATCATAA CAGCCTTGAA

39601 GTAGCCTGTT GAAACAGACA GACTCTCTTG TAAGAGAACT CACAAAATCT

39651 AGGATTATAT CTCCCATGAT GAAAAATTTG GAACTGTACA TTTTTGTTTA

39701 ACTGTCACTT AAATNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

39751 NNNNNNNNNN NNNNNNNNNN NCCAGGAGGC ACTGTGCTTG GCGCCTTTTT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

39801 ACCAACACTT TGAGATGGCC ATTGTACTTA TCCCCACTTT ATAGACGGGA

39851 AAATGGAGGT CCAGCAATAT TTTTTAACTT AAAGAGCCAC CCATCTCTTT

39901 AGAGAAAGAG CCAGAATCCC AGGCAGGGGC TATCTTATTC CAGAGCCCAA

39951 GCTCTCAAAC ACATGATACA CAATACTTAA TCTCTCTCAA GTCAGAGGAG

40001 ATCCACTTAA GTATACATCC ATCCACATAT TCATTCATTC AATCATTCAA

40051 CAAATATTAG TTGAGCACTT ACCGTATGCC AAACAGTCAA ACGTGAATAG

40101 CTGTTACAAA TGAGACTGTG AAGGATGGTA CAACGCAGAT TCAGACAGTG

40151 TGATAAGGAA ATATTGAGAA GCAAAGATGA GTTCTGGAGT GAATTTGTAA

40201 AGGTGGATGT GGGCTTGGAT TTCAATAATG GCAGAACTTA AGGAATCTGA

40251 TGAGAAGTGG GCACTTCAGG CAGAGAGAAG AGCTTGAACA AGGCTCAGAG

40301 GCTGACAGTG CAGGAAACAC ATGGGAAGAG GGAATAGAGT AGCGGTCAAG

40351 AATTCACAGA GGAGTTATAG GTGAAGATGC AACCAAGTTA CAGACCAAGG

40401 TAAGATAGGG GAATACCAAT CACAATCTCT TTTCCCATTC CAGAAGCATC

40451 CCAGACACAT CCTAGTAACC GAGAGACATT TCTCTCCCTT TCCTCCTGTG

40501 GAGAATAAAT AAGCTATTGC AAGTCCAGTA AGTGTAATCA TTTTGTTCAA

Exon 6

40551 ATTGTGTGCC CATTCCCCAA TTTACAGGAC TACACACAGG AGGGACAAAA

40601 AGAATGGAGA CCACAACCAC AGCTCTGAAG ACCACCACCA CAGCTCTGAA

40651 GACCACTTCC AGAGCCACCT TGACCACCAG TGTCTATACT CCCACTTTGG

40701 GAACACTGAC TCCCCTCAAT GCATCAATGC AAATGGCCAG CACAATCCCC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
40751	ACAGAAATGA TGATCACAAC CCCATATGTT TTCCCTGATG TTCCAGAAAC
40801	GACATCCTCA TTGGCTACCA GCCTGGGAGC AGAAACCAGC ACAGCTCTTC
40851	CCAGGACAAC CCCATCTGTT TTCAATAGAG AATCAGAGAC CACAGCCTCA
40901	CTGGTCTCTC GTTCTGGGGC AGAGAGAAGT CCGGTTATTC AAACTCTAGA
40951	TGTTTCTTCT AGTGAGCCAG ATACAACAGC TTCATGGGTT ATCCATCCTG
41001	CAGAGACCAT CCCAACTGTT TCCAAGACAA CCCCCAATTT TTTCCACAGT
41051	GAATTAGACA CTGTATCTTC CACAGCCACC AGTCATGGGG CAGACGTCAG
41101	CTCAGCCATT CCAACAAATA TCTCACCTAG TGAACTAGAT GCACTGACCC
41151	CACTGGTCAC TATTTCGGGG ACAGATACTA GTACAACATT CCCAACACTG
41201	ACTAAGTCCC CACATGAAAC AGAGACAAGA ACCACATGGC TCACTCATCC
41251	TGCAGAGACC AGCTCAACTA TTCCCAGAAC AATCCCCAAT TTTTCTCATC
41301	ATGAATCAGA TGCCACACCT TCAATAGCCA CCAGTCCTGG GGCAGAAACC
41351	AGTTCAGCTA TTCCAATTAT GACTGTCTCA CCTGGTGCAG AAGATCTGGT
41401	GACCTCACAG GTCACTAGTT CTGGGACAGA CAGAAATATG ACTATTCCAA
41451	CTTTGACTCT TTCTCCTGGT GAACCAAAGA CGATAGCCTC ATTAGTCACC
41501	CATCCTGAAG CACAGACAAG TTCGGCCATT CCAACTTCAA CTATCTCGCC
41551	TGCTGTATCA CGGTTGGTGA CCTCAATGGT CACCAGTTTG GCGGCAAAGA
41601	CAAGTACAAC TAATCGAGCT CTGACAAACT CCCCTGGTGA ACCAGCTACA
41651	ACAGTTTCAT TGGTCACGCA TCCTGCACAG ACCAGCCCAA CAGTTCCCTG
41701	GACAACTTCC ATTTTTTTCC ATAGTAAATC AGACACCACA CCTTCAATGA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
41751	CCACCAGTCA TGGGGCAGAA TCCAGTTCAG CTGTTCCAAC TCCAACTGTT
41801	TCAACTGAGG TACCAGGAGT AGTGACCCCT TTGGTCACCA GTTCTAGGGC
41851	AGTGATCAGT ACAACTATTC CAATTCTGAC TCTTTCTCCT GGTGAACCAG
41901	AGACCACACC TTCAATGGCC ACCAGTCATG GGGAAGAAGC CAGTTCTGCT
41951	ATTCCAACTC CAACTGTTTC ACCTGGGGTA CCAGGAGTGG TGACCTCTCT
42001	GGTCACTAGT TCTAGGGCAG TGACTAGTAC AACTATTCCA ATTCTGACTT
42051	TTTCTCTTGG TGAACCAGAG ACCACACCTT CAATGGCCAC CAGTCATGGG
42101	ACAGAAGCTG GCTCAGCTGT TCCAACTGTT TTACCTGAGG TACCAGGAAT
42151	GGTGACCTCT CTGGTTGCTA GTTCTAGGGC AGTAACCAGT ACAACTCTTC
42201	CAACTCTGAC TCTTTCTCCT GGTGAACCAG AGACCACACC TTCAATGGCC
42251	ACCAGTCATG GGGCAGAAGC CAGCTCAACT GTTCCAACTG TTTCACCTGA
42301	GGTACCAGGA GTGGTGACCT CTCTGGTCAC TAGTTCTAGT GGAGTAAACA
42351	GTACAAGTAT TCCAACTCTG ATTCTTTCTC CTGGTGAACT AGAAACCACA
42401	CCTTCAATGG CCACCAGTCA TGGGGCAGAA GCCAGCTCAG CTGTTCCAAC
42451	TCCAACTGTT TCACCTGGGG TATCAGGAGT GGTGACCCCT CTGGTCACTA
42501	GTTCCAGGGC AGTGACCAGT ACAACTATTC CAATTCTAAC TCTTTCTTCT
42551	AGTGAGCCAG AGACCACACC TTCAATGGCC ACCAGTCATG GGGTAGAAGC
42601	CAGCTCAGCT GTTCTAACTG TTTCACCTGA GGTACCAGGA ATGGTGACCT
42651	CTCTGGTCAC TAGTTCTAGA GCAGTAACCA GTACAACTAT TCCAACTCTG
42701	ACTATTTCTT CTGATGAACC AGAGACCACA ACTTCATTGG TCACCCATTC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
42751	TGAGGCAAAG ATGATTTCAG CCATTCCAAC TTTAGCTGTC TCCCCTACTG
42801	TACAAGGGCT GGTGACTTCA CTGGTCACTA GTTCTGGGTC AGAGACCAGT
42851	GCGTTTTCAA ATCTAACTGT TGCCTCAAGT CAACCAGAGA CCATAGACTC
42901	ATGGGTCGCT CATCCTGGGA CAGAAGCAAG TTCTGTTGTT CCAACTTTGA
42951	CTGTCTCCAC TGGTGAGCCG TTTACAAATA TCTCATTGGT CACCCATCCT
43001	GCAGAGAGTA GCTCAACTCT TCCCAGGACA ACCTCAAGGT TTTCCCACAG
43051	TGAATTAGAC ACTATGCCTT CTACAGTCAC CAGTCCTGAG GCAGAATCCA
43101	GCTCAGCCAT TTCAACAACT ATTTCACCTG GTATACCAGG TGTGCTGACA
43151	TCACTGGTCA CTAGCTCTGG GAGAGACATC AGTGCAACTT TTCCAACAGT
43201	GCCTGAGTCC CCACATGAAT CAGAGGCAAC AGCCTCATGG GTTACTCATC
43251	CTGCAGTCAC CAGCACAACA GTTCCCAGGA CAACCCCTAA TTATTCTCAT
43301	AGTGAACCAG ACACCACACC ATCAATAGCC ACCAGTCCTG GGGCAGAAGC
43351	CACTTCAGAT TTTCCAACAA TAACTGTCTC ACCTGATGTA CCAGATATGG
43401	TAACCTCACA GGTCACTAGT TCTGGGACAG ACACCAGTAT AACTATTCCA
43451	ACTCTGACTC TTTCTTCTGG TGAGCCAGAG ACCACAACCT CATTTATCAC
43501	CTATTCTGAG ACACACACAA GTTCAGCCAT TCCAACTCTC CCTGTCTCCC
43551	CTGGTGCATC AAAGATGCTG ACCTCACTGG TCATCAGTTC TGGGACAGAC
43601	AGCACTACAA CTTTCCCAAC ACTGACGGAG ACCCCATATG AACCAGAGAC
43651	AACAGCCATA CAGCTCATTC ATCCTGCAGA GACCAACACA ATGGTTCCCA
43701	GGACAACTCC CAAGTTTTCC CATAGTAAGT CAGACACCAC ACTCCCAGTA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

43751	GCCATCACCA GTCCTGGGCC AGAAGCCAGT TCAGCTGTTT CAACGACAAC
43801	TATCTCACCT GATATGTCAG ATCTGGTGAC CTCACTGGTC CCTAGTTCTG
43851	GGACAGACAC CAGTACAACC TTCCCAACAT TGAGTGAGAC CCCATATGAA
43901	CCAGAGACTA CAGCCACGTG GCTCACTCAT CCTGCAGAAA CCAGCACAAC
43951	GGTTTCTGGG ACAATTCCCA ACTTTTCCCA TAGGGGATCA GACACTGCAC
44001	CCTCAATGGT CACCAGTCCT GGAGTAGACA CGAGGTCAGG TGTTCCAACT
44051	ACAACCATCC CACCCAGTAT ACCAGGGGTA GTGACCTCAC AGGTCACTAG
44101	TTCTGCAACA GACACTAGTA CAGCTATTCC AACTTTGACT CCTTCTCCTG
44151	GTGAACCAGA GACCACAGCC TCATCAGCTA CCCATCCTGG GACACAGACT
44201	GGCTTCACTG TTCCAATTCG GACTGTTCCC TCTAGTGAGC CAGATACAAT
44251	GGCTTCCTGG GTCACTCATC CTCCACAGAC CAGCACACCT GTTTCCAGAA
44301	CAACCTCCAG TTTTTCCCAT AGTAGTCCAG ATGCCACACC TGTAATGGCC
44351	ACCAGTCCTA GGACAGAAGC CAGTTCAGCT GTACTGACAA CAATCTCACC
44401	TGGTGCACCA GAGATGGTGA CTTCACAGAT CACTAGTTCT GGGGCAGCAA
44451	CCAGTACAAC TGTTCCAACT TTGACTCATT CTCCTGGTAT GCCAGAGACC
44501	ACAGCCTTAT TGAGCACCCA TCCCAGAACA GAGACAAGTA AAACATTTCC
44551	TGCTTCAACT GTGTTTCCTC AAGTATCAGA GACCACAGCC TCACTCACCA
44601	TTAGACCTGG TGCAGAGACT AGCACAGCTC TCCCAACTCA GACAACATCC
44651	TCTCTCTTCA CCCTACTTGT AACTGGAACC AGCAGAGTTG ATCTAAGTCC
44701	AACTGCTTCA CCTGGTGTTT CTGCAAAAAC AGCCCCACTT TCCACCCATC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

44751 CAGGGACAGA AACCAGCACA ATGATTCCAA CTTCAACTCT TTCCCTTGGT

44801 TTACTAGAGA CTACAGGCTT ACTGGCCACC AGCTCTTCAG CAGAGACCAG

44851 CACGAGTACT CTAACTCTGA CTGTTTCCCC TGCTGTCTCT GGGCTTTCCA

44901 GTGCCTCTAT AACAACTGAT AAGCCCCAAA CTGTGACCTC CTGGAACACA

44951 GAAACCTCAC CATCTGTAAC TTCAGTTGGA CCCCCAGAAT TTTCCAGGAC

45001 TGTCACAGGC ACCACTATGA CCTTGATACC ATCAGAGATG CCAACACCAC

45051 CTAAAACCAG TCATGGAGAA GGAGTGAGTC CAACCACTAT CTTGAGAACT

45101 ACAATGGTTG AAGCCACTAA TTTAGCTACC ACAGGTTCCA GTCCCACTGT

45151 GGCCAAGACA ACAACCACCT TCAATACACT GGCTGGAAGC CTCTTTACTC

45201 CTCTGACCAC ACCTGGGATG TCCACCTTGG CCTCTGAGAG TGTGACCTCA

45251 AGAACAAGTA AGAATAACTT TTTTATTGTG GTAAAATATA AATACTATAA

45301 AAATTGCCAT TCTAAACATT TTAATTGTAC AACTCAGCAG TACTAATACA

45351 TTCACATTGT TGTGCAACCC TCACCACTAT CTGTTTTCAA AACTTTTTTT

45401 ATCACCCCAA ACAGGACTGA AGGAATAATT TCCCATTCCC CATTCTCCCT

45451 AGTGCAGTGG TGCAATCTCG GCTCACCACA ACCTCTGAAC CTCTGTCTCC

45501 TGGGTTCAAG CAATTCTCCT GCATCAGCCT CCTGAGTAGT TGGGACTACA

45551 GGTGCACGCC ACCGTGCCTG GCTAATTTTT GTATTTTTAG TACAGACAGG

45601 GTTTTACCAT GTTGGTCAGG CTGGTCTCAA ACTCCTGACC TCAGGTGGTC

45651 CACACGCCTT GGCCTCCCAA AGTGCTGGGA TTACAAGTGT GAGACACTGT

45701 GCCCGGCCAT ATCTGTTAGA TCTTACTAAT CCTGTCAAGA GGATTCAGTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

45751 TCCTTTTTTT TTTTTCTTTC TTTTTTTTGA TAGAGTCTCC CTCTGGCACC

45801 CAGGCTGGAG TGCAGTGGTA CGGTCTTGGC TCACTGCAGC CTCCACCTCC

45851 CAGACTGAAG CGATTCTCCT GCCTCAGCCT CCCGAATAGC TGGGACTACA

45901 GGCGCGTGCC ACCACGCCCA GCTAATTTTT GCATTTTTAG TAGAGATGGG

45951 ATTTCACTAT GTTGGCCAGG CTGGTCTCAA ACTCCTGATC TCAAGTGATC

46001 CGCCCAAGGG CCTCCCAAAG TACTGGGATT ACAGGTAGGA GCCACCTCAC

46051 CTGGCCCTAT TTTCGGAATG GATTTTTTTT TAATGTTTAA AATGTCACCT

46101 AAGATTATTG TGAAGATCAA ATAAGATAAA ATCCTAATAA CCCAAGTAAA

46151 CCACAGGGCT CCACTTGGAC CAGTCTCAGA AGTTTCAAGA AAATCAGTCA

46201 GACCATCAAA TGTAAAATAA GTCTAAATTT TCTTTGCACT ATTCACAGAG

46251 TGCCAAAGAG GATCTAATTC ATGTTTCAGA ACATACCCTA CTTACTAAAA

46301 TCCCCTTTTC CTCATTTCTT CTCATTCTGC AACTTTATCA TCTCCTGCGG

46351 ACCCCCTAGC CTCTCCCCTC CCCATAGTCA GTCTCTCTCT CTCTCTTTCC

46401 CTCCCCTCTT ATTATCTCAA TTTCACACGA AAGAATTCCA GAAACTATAC

46451 TGCCAAAAGT CTTTCCTGTC TTTGAAAAGT TGGGAAAGAG GAGAAACTCA

46501 GACAGCAATG ACAAAATTAT ACGTAATGGA TGAAGGAAAC ACAAATAAGG

46551 CTGGAAACAG AAAATTTTGT CCCCATCATT TATTTAATGA AGGTGGCAGT

46601 ATTCCAGCCA CATAGTGAAC CCCCACAATA AGAAGGGGCC TCTGGCGATT

46651 GATTATTGTC ATTGTTGTTA ATGATAATGA GGGTGAGGAT ATCATGAGCA

46701 TCAGTGTAGG AGGCAGTTAA CTAATAAGAC CAAGCTGTTG GCTGGGCGTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

46751 CTGGTTCACA CCTGCAGTCC CAGCACTTTG GGAGGCCAAA GTGGGTGGAT

46801 CACTTGAGGT CAGGAGTTCA AGACTAGCCT GGCCAACATG GTGAAACCTG

46851 GTCTCTACCA AAAATACAAA AATTAGTCAG GTGTGGTGGC GTGTGCCTGT

46901 AATGACAACT ACTTGGGAGG CTGAGGCAGG AGAATCACTT GAACCTGGGA

46951 GGCGGAGGCT GCAGTGAGAT GAGCTTGAAC CACTGCACTC CAGCCCGGGC

47001 AACAGAGAGA GACTCTTGTC TCAAAAAACA AAACAAACAA ACAAAAACTA

47051 AACCAAACAA AAAAAGACTA GCTGTTATTC ATTTATTTAT TTATTTATTT

47101 AGAGACGGAG TCTCGCTCTG TCACCCAGGC TGGAGTGCAG CGGCACAATC

47151 TTGGCTCACT GCAACCTCTG CCTCCCAGGT TCATGTGATT CTCCCGCCTC

47201 AGCCTCCCCA GCTGTTGTTA TTCATGAATG AACCTCAGAG AAAGCACACA

47251 GGAGGGTTGG TGCACCTGTG TTTTGAGTTC TACCCCTCCT TCCTCTCTTA

47301 ACTTCCTCCT GTCTTCTCAC TCTGATTCGT TCTTCCTTCC TCTCCCTCTC

Exon 7

47351 TCTCTGCAGG TTATAACCAT CGGTCCTGGA TCTCCACCAC CAGCAGTGAG

47401 TAAACATGGC CCTGAAGTCC CTATGCCCTG GGAATTCTTC CTCCCTAAGC

47451 CTGCCTTCCA GGAGGAAAGT ATCCCCCATT CCCTAGGTTC TCATCCCCAC

47501 AGAAACTCCA GAATAGCAAA AGTCTCAGGC TGAGCCAAGG CACAGATGCC

47551 AGTGCTCACC AAGAGTCCTA TTCTCCCCTC GCTAAATGAT AGGACCCAAC

47601 AAACCCGATT CACGCTGCGT TTTCTTTCAG CTCCGATGAC CTCCATGTTC

47651 TCTCCAAGGC CTCTCGTATC TGTGAGCCCC ACCCCCAGCG CTACAGGTAG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
47701	GAATCTGGCT TCCAGCTCCC ATGAAACGTC GGCTGCCATT CAGTGGCTGA
47751	TTAATTGCTG TGTGGTCTGA GTCCTGATGC CCACCAAGTC TCAGCGTGTT
47801	CCCCTCTGTC CAATCTCATC CAACAATTTA AGCTAATGCT TGTTTAATGA
47851	TGTCCTCACT ATACCACCTT GGACACTTTC TTTTTGCCTG GATTTAAAGC
47901	TTCCATTTCT TTCCTTCCTT CCTTCTTTTC TTCCTTCCTT CCTTCCTTCC
47951	TTCCTTCCTT CCTTCCTTCC TTCCTTCCTT CCTTCCTTCC TCCTTCCTTC
48001	CTTCCTTTCT TCCTTTCTTC CTGTCTTTTT CTTTCTTTCC TTCTTTTGGC
48051	AGAGTCTCAC TCTGTCGCCC AGGCTGGAGT GCAATGGTGC AATCTCGGTT
48101	CACTGCAACC TCTGCCTCCC AGGTTCAAGC GATTCTCATG CCACATGCCA
48151	CTATGCCTGG CTAATTTTTG TTTTTTTGTT TTTTGGGGGG TTTTTTGAGA
48201	CAGAGTCTCA GTCTGTTGCC CAAGCTGGAG TGCAGTGGCA TGATCTCGGG
48251	TCACTGCAAC CTCCTTCTCC CAGGTTCAAG CGATTTTCCT GCCTCAGCCT
48301	CCTGAGTAGC TGGAACTACA GGCACGCACC ATCACACCGG CTAATTTTTT
48351	GTGTTTTTAG TAGAGACGAC GGTTTTGCAA TGTGGGCCAG GCTTGTCTCG
48401	AACTCCTGAC CTCAAGTGAT CCTCCAGCCT CGGCCTCTCA AAGTGCTGGG
48451	ATTACAAGTG TGAGCCACTG CACCAGGCCA AAAACTTGTA TTTCAATAGT
48501	CATTGAGGCT GGGTGCAGTG GCTCACGCCT GTAATCCCAG CACTTTGGGA
48551	GGCTGAGGCC AGTGGATCAT GAGGTCAGGA GATCAAGACC ACCCTGGCTA
48601	ACACAGTGAA ACCCCATCTC TACTAAAAAT ACACACAAAA ATTAGCCGGG
48651	CATGGTGGCA AGATGCCTGT AGTCCCAGCT ACTCAGGAGG CTGAGGCAGG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

48701 AGAATGGCGT GAACCTGGGA GGCAGAGCTT GCAGTGAGCG GAGATCGCAC

48751 CGCTGCACTC CAGCCTGGGC AACAGAGAGC GACTCTGTCT CAAAAAAAAA

48801 AATATATATA TATATATATA TATATTCATT GAGACCGACT CTGACTTAAA

48851 AGCAGTAATG AATGGTGTAG GTTTTGGTAA ATTACAGGTC TTGCTTTAAG

48901 TCCTGGTCCT CTCTTTTGCT CACTGTGTGG CCCCGGAAGA GCCATGTAAC

48951 CTCTCCAGGC TTCAGTGTCC ATTTTTAGAA CGGAGTAAGT GAATAAGCTG

49001 TGTCCAATCA TCTCTGGCCA TATCAGCTTC ATTTTTTTTT TCCTCCAGGG

49051 TCCAAACATC CCTCCACCCT CAGAGTCTTT GCACCTGGTG TTCTTGTCCT

49101 TCAAATCTCA GCTTGGATCA CCCTTTATAA AGTAGCATTT CCCCCGTATA

49151 CGCATCTTGC ACACAGCCAA TCTCTATTCT ACCTCTATGC TCACTTCCTT

49201 CCTGGCAATT ATTACTACAG CTGGGCCCTT GAACAGCATG AGGGTTCAGG

49251 GTGCTGACCC CTATGCATTC AAAAATCCAC ATATAACTTT TTTTTTTTTG

49301 AGATGGAGTT TCACACTTGT TGCCCAGGCT GGAGTGCAGT GGCGCCATCT

49351 TGGCTCACTG CAAACTCTGC CTCCTGGGTT CAAGTGATTC TCCTGCCTCA

49401 GCCTCCTGAG TAGCTGGGAT TACAGGCATG TGCCACCATG CCCAGCTAAT

49451 TTTGTATTTT TAGTAGAGAT GAGGTTTCTC CATGTTCGCC AGGCTGCTCT

49501 TGAACTCCTG ACTTCAGGTG ATCCGCCTGC CTTGGCCTCC CAAAGTGCTG

49551 GGATTACAGG CATGAGCCAT GATGCCCGGC CATTTGCTAA TGGCATCTAG

49601 TAAGTAGAGG CCAGAGATGT TGCAAAACAT CCAACAATGC ACAAAGCAGC

49651 CTCCTATCAA AACACATTAT CCAGACCAAA ATGTCAATAG GGCTGAGGTT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
49701	GAGCATCTGC TGTACACAGA TTCCAAGTTC TGGTACAAAT CTCGTAGTTC
49751	TCTGAGGGCT CATCTTTCAA TGCCTAGCAC ATCAAAGGAG GCCAATTTCC
49801	TCTTCCCTTT CACCTCCTGG TATGAAATGT TTCCTCCTCC ACCTTGATCC
49851	TGTAAGAGCC CAGCTGGAGT TTGCAGACGA CGGGGAAAGA AATGGGTGAG
49901	GGAGGGTCCT ATGGTTGAGT CTCCGCAGTG GGCCCTGGGT GCCCAGTTCA
49951	CCCTCCTCCC CTTCATTTTC TCCATCATGA CAACTCAAGG CAAATTCTCA
50001	GTTTCCATGG GCCAGTGGAA TCCACTGACT TCATGAAATA ACCCCACCCT
50051	GAGCAAATAC CCCTCAAATA ATAACTGTTT ACACAACATC AGTGGCAACA
50101	ATGACCCAAG CAGCAATGCC ACCACCAGAA TAGCAACCAT AACAGCAGCT
50151	CATTTTCATC AAAAGGAAAC TGTAGGGCCA GGCACAGTGG CTCACACCTA
50201	TATTCCCAGC ATTTTGGGAG GCTGAGGCAG GCAGATCACC TGAGGTCAGG
50251	AGTTCAAGAC CAGCCCAGCC AACATGGTGA AACCCCATCT CTACTAAAAA
50301	TACAAAAACT AGCCAGGCTT GGTGGCATGT GCCTGTAATC CTAGCTACTC
50351	GGGAGGCTGA GGCAGGAGAA TTGCTTGAAC CTGGGAGGCA GAGGTTGCAG
50401	TGAGCTGAGA TTGTGCCACT GCACTCCAGC CTGGGCGACA GAGCAAGACT
50451	CCGTCTGAAA AAAAAAAAAA AAGGAATTGT GCCAGGAATT GTGATGAGAA
50501	CTTTATATGC ATTATCTCCT ATTAATATTA CCCAAACCTC CGTGAGTTAC
50551	TATACTCATT TCTACAGAGA GCATTTATGC ATCCAGGGAG GAAGTAATTA
50601	GCCCAGAATT ACTCAGTTAT GACACAGGAC AGTATGAAAA CTCCAACCGA
50651	AGATTGGAGA CTCATGAAAA CTCCAGGCTC CTAACTACAA GACATCACTG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)				
50701	TGGATCGTCC	AAATAGAGCA	AGCCCCAATC	TCAGGACAGG	AATGAGGCAT
50751	GAATGGCCTC	TATGCTAATG	ATCTAACCTA	ATGCTGAATT	TGTTACTTCC
50801	CTTCTGAATC	CACTTGGAGA	TTTCCTTTAT	ATCTGACTTG	AAATAGAGGA
50851	TATATACTCC	TCTATCCTTG	ACATAGGAGA	TAATACACAG	AAAGTATTTC
50901	ATTGTAGTAT	CAAGTACACA	TCCTGTTCTG	TGTCCATAGG	ATTATGACTA
50951	ATTTAGGGCA	TGGCTTAACA	GTGTGGTACT	ATTGAATGAC	AGACAGATGT
51001	CTGTTTTGTT	GGATGCAGGA	CAAGCCATGT	AACCTCCCCA	GACTTTAGTG
51051	TCCCCTCTGT	GGAATGGAAT	AAAAATACTA	CGTGGGATTG	TTCTGATAAT
51101	CAAATGAGAT	AATTCAGGAA	CAACCCAGAT	AAATAACAGG	GCTGCCCTGG
51151	GTTCTGTCTT	TCCTTGTATC	TCTCACAGAG	CCTCAAAGGA	GATGCAATCC
51201	ATGACCTAGA	GAAACACTCA	GGACAAATTC	TCTTTTCCCC	AGTTCCTTTC
51251	TTGCTCCAAT	GGCAACACCA	CCCCTCTCAT	CCTGAAGTCT	CTTGTTTTTA
51301	CCACCACACC	TATTTTGCCA	AATTTTCTCC	AATATTCCAA	ACCATATGAA
51351	ACCTTTCTTT	CTTTCTTTTC	TTTCCTTCCT	TTCCTTCTTT	CTTTCTTTTT
51401	TCTCTTCTTT	TCTTTTCTTT	TTGAGACATG	GTCTCACTCT	GTTGCACAGG
51451	CTGGAGTGCA	ATGGCACGAT	CTTTGCTCAC	TGCAACCTCC	GCCTCCCAGG
51501	TTCAAGAGAT	TCTCTTGCCT	CAGCCTCCTG	AGTAGCTGGG	ATTACAGGCG
51551	CCCACCGCCA	CGCCACGCTA	ATTTTTGTGT	TCTTAGTGGA	GACGGGGTTT
51601	CGCCATGTTG	GCCAGGCTGG	TCTTGAACTC	CTGACCTCAA	GTGATTTGCC
51651	CATCTCGGTC	TCCCAAAGTG	CTAGGATTAC	AGGCGTGAGC	CACCAAGCCC

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

51701 GGCCCCATAT GAACCGTTTC TATCCCTCAT TTCTCTGTAC TTTTACCTAA

51751 AAACACCACT CCCTTCACCC ATCACATTTT TGTCAATTCT ACATCACACA

51801 CACACACACA CACACACACA CACACACAGA GAAAGTAAGT TGGAAAAAAA

51851 TTATACTATC ATGAAATTTT GTGAAAGGAG GTAAGCTGAG AGAGTAAGAA

51901 TCAAACTAAA TTATCTTTAT GGGTAGAAAG CACACTCATC CATACATGTG

51951 TCTTTCCACC CTTGTAATGT ATTTATTATT ATTGTTTGTA TATACTAGAT

52001 TCCCAATAAA TAGGGACAGC TATTATGGTA TTTTTATTTC AGGAATAATA

52051 ATAGTGATGA TTTCCACCAT TATTGTCAAA GGACAAAGCA CAAAATATGT

52101 ACCAAATAAA ATATAGCCAT TATCCTTTAT TCACAAAAGA TCTTGGCCCC

52151 ACCTCTTCTC AATGAAATGT CCATGACTTG TTCAACTTTG GCCACTCTGG

52201 GCTGAGAGAT GGAGGTTCCC TTGCGAGCTG AAGTCACACA TCGAAGGTGG

52251 AAGCCCCTCC CCTCCCTCTG GCTGGCTGAG GGATAGCCCA GATGGGCTCA

52301 TCATGAAAGT TTCCCATTAT TTCCATTTCT GGATCTACCA TCTTCCCCTC

52351 CCCTACCTCT CACCCATCAT AATTGTCCTT CTTTACTCTT TCCTCCCTAT

Exon 8

52401 CTGCAGGTTA TAACCGTCGG TACTGGACCC CTGCCACCAG CAGTGAGTAT

52451 TCAAACCTGT GATATTCCAA TGCCCTTGGG ACCCTTCCTC CCCAAGGTGC

52501 ATTCCTCAGA AGAGAAACTG ATCATTCTCC CTCCCTACGT GCCCAGCCAC

52551 AGCCTCAGAG CAGCCCCTAA CCCGTCAAGG TCTTGGTGTG AGTCAAGATA

52601 GAAGTCCAAA TTCCAATGAG CAGTTCCTGT CCCATATTCC TTTAGGAAGA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)

Exon 9

52651 CACCCAATCA TTTCTCCATG TTCTTTTTTT CTCAGCTCCA GTGACTTCTA

52701 CATTCTCCCC AGGGATTTCC ACATCCTCCA TCCCCAGCTC CACAGGTAGG

52751 AAGCTCCTCT CTGGCATCTA TGAAATTTAA CACTGCATGG TCTGTTCCCT

52801 GCTGACCACC CAGACTCAGC CTGTTCCACT CGCCCTCTCA CTCTCTCTCT

52851 CTCTCTTTTT TTTTTTTTTT TTTTTTTTTT TTTACGGAGT CTTGCTCTGT

52901 CACCCAGGCT GGAGTGGAAT GGTGTGATCT CGGCTCACTG CAACCTTCGC

52951 CTCCCAGGTT CACGTGATTC TCCTGCCTCA GCCTCCGGAG TAGCTGGGAT

53001 TACAGGTGCA CACCACCATG CCTGGCTAAT TTTTTGTATT TTTAGTAGAG

53051 ACGGGGTTTC ACCATGTTGG CCAGGCTGGT CTTGAACTCC TGACCTCAAG

53101 TGATCTACCC ACCTTGGCCT CCCAAAGTGC TGGGATTATA GGCATGAGCC

53151 ACCACGCCAG GCCCACTCTC TAAATTTTGA CCACCCTGCC TTGAGTGGTC

53201 TTCTAGCACC CTAACCTCTG TCTAACCTCG AGAGCTTTGC ACTAGCGATT

53251 CCTGGGGACC AGCTATGGTT GGTATCTTCT CAACTTTCTA ATTTTTTTAA

53301 AATTATTATT ATTATTATTA TTATTTTAAA TGGAGTCTCG CTCTGTCACC

53351 CAGGCTGGAG TGCAGTGGCA CCATCTCGGC TCATTGCAAC CTCTACCTCC

53401 CGGGTTCATG CAATTTTCCT GCCTCAGCCA GAAATTTTCT CAGTGGTCGA

53451 GATTGTGCCA CTGCACTCCA GCCTGGGCAA TGGAGCTAGG CTCCATCTCA

53501 AAAAAAAAAA AAAAAAGACG GAGGTCGGGC ATTCCTAACC CTTAACCCTG

53551 CCTTGTGATT CTGGAGTTAT GAGATAGAAC CTGGTGTCCC GTAATTAAAA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence
(SEQ ID NO: 1)

53601 TTCCGCCTTC AGGCCTTATG TTTTGTGAGT CACAACACTG CAAACTTTTT

53651 ACATGCTGTA GACAGGATGT TCACTCTCCA CTTCCTCACT GCTCTGCTCT

53701 AATCAATTCA ACCATTTATG TGACATGCCT AACCCCTCTG GGCTTGTACG

53751 TATGTAACAT GTATTACAAA GCAAGTCATT CCATGATCAA TGCTGTCACT

53801 TTTTCTAGGT GCTTTCAAAA TTTGTTCTTC ATCATTGATT TTCAGTAGTT

53851 TGATTACGAT GTGTCTGGGC ATGGTTTTCT TTGAGTTTAT CCTGCTTAAA

53901 GTGTTCTCAG CTTCTTGAGT CTCAAAGTGT TTATTTTCTG CTCTGATTCT

53951 TTCTCCCCTT CGGACCTCCA ATGAAATGAT GTTGCCCGAA GAGACCCTGA

54001 GGTTCTGTTC ATTTTGTTAT TTATCAATCT TTTTTCCTCT CCGAATTTCA

54051 GGTTTAATAA TTTTTTTTTT TTTTTTGAGA CGGAGTCTCG CTCTGTCGCC

54101 CAGGCTGGAG TGCAGTGGCG CGATCTCGGC TCACCGCAAG CTCCGCCCCC

54151 TGGGTTCACG CCATTCTCCT GCCTCAGCCT CCGGAGTAGC TGGGATTACA

54201 GGCACCCGCC ACCATGCCCG GCTAATTTTT TGTATTTTTT AGTAGAGACG

54251 GGGTTTCACC GTATTAGCCA GGATGGTCTC AATCTCCTGA CCTCGTGATC

54301 CGCCCGCCTC AGCCTCCTAA AGAGCTGGGA TTACAGGCGT GAGCCACTGC

54351 GCCCGGCCCA GGTTTAATAA TTTTTATAGA ATATTTTCAC AATCACCAAG

54401 CCTTTTCTCT ACCAGCTCCA TTCTGCCCAT CCATTGAATT CTTTTTATCT

54451 CAGTTACTTT ATGTTTCAGT TCGAAAGTTT CTACTTGGTT AGATAGATAG

54501 ATGTTATATC ATATATTATA TGTTATATAA AAATATATTT ATGGTTATAC

54551 ATATAACATA TATGTTATAT ATAGTTATTT ATATAGCCAT AACTATATAT

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)

54601 AGCCATATAT ATAGTTATAT ATAACCATAT ATATAGTTAC CATATAGTAA

54651 CCACATATAT AAAACATATA TATATAGTGT CTCTCTATAT ATAGTTATAT

54701 ATATAGTTTC TATATCTGTA ACTATATATA GTTATATATG TATGTTTCTC

54751 TGTATATAAA TATATATATT TCTATATATA TAGTTATACA CATTATATAT

54801 ATAACTGGGA GATGTTGGTA AAGGATGGCG TGAGGAAACC TGGAGCAGTC

54851 ATGGTAATCC TCGCTCTGCT CCGAACTCCT CAAGAGCAGG AGAAGGGTCC

54901 TCCTCATTCT CCAGCCATGT TGACTTTGAG CAATTTACTC ATCCTCTCAG

54951 TACCTCAGTT TCCTCACCTG CCAATTGAGG ATAATAATAT TTCATAAATT

55001 GTTTGCAAAT GTTATATGCA ACTCTACGTA AGAACACCTA GCACAGGGGC

55051 TACCAGGGAA TTTGGTTTAA CAAATATTTA TCAGGCACCT ATTCTGGGCT

55101 GGGCAGGGGG GATAAGATGT TGACTAAGTC AAATGCAGTC CCTCCCCTCA

55151 CCAAGTTTAC AGTGTATTGG GCAAGACTGA AATGGAACAA GCAATTACAA

55201 TTGACAATAA AAGACAACCA AGTTATTGAG CACTTACTAT ATGGCATGCC

55251 ATATGCTATG TATTTTTTTT ATTTTTAACT TTTCATTTTG AAATAAATAA

55301 TAAATATAAA GTAAATAATA ATATAAATAA ATAATAAATA ACTTTTCATT

55351 TTGAAATAAA TAATAAATAA ATTCAGGAGA TGTTGCGAAA ATAGTGTAGC

55401 ATTCCCCTGT ATCCTTCACC CAGTTTCTCC CCAATGGCTA CATCTTACAT

55451 AACTCTAATA CAATATCAAA AGCAGGAAAC TGACATTGTT AAAATCCATT

55501 TTACTGGTTT TACACGCGTG TGTGCATATG TGAGCTTGTG TATGTGCGTG

55551 TGTGTGCAGG CATGTGTGTG CATGCACGCC TGTGTGTGCA TATGTGCATG

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
55601	TGTGCATGCG TGTGTGCATG TGTGCATGTG TGTGTGCATG CGTGCGTGCG
55651	TGCGTGCATC TGTGTGCATG TATGCACATG TGTGTGTGTC TGTGCACGTG
55701	TGTGCATGCA TGTGTGTGTG CGTGTGTGTT GGTAGCCCTA TGCAATTTTT
55751	ATCACATGGG CATAGCCCTA TAATCACCAC CACCATCAAG ATTCAGAACT
55801	GTTCCATTCC CCCAAAGATT CCCCTCATGC TAGCCTTCGT AATCATGCCC
55851	ACTGAGCCCA ACACTATTGC ATAGAATAGC TATTCTACTC TCCATCTCCA
55901	TCTCTGTCTC TACAATTTTC TTTTGAAGAT GTTATATAAA TGGAAATGTA
55951	CAACATGTCA CCTTTGAAAT TGGCTTCTTT TCCACTCAGT GTAATGCCCT
56001	GGAGATGTGC TCTTTTTAAC AGTCATGTAA CCTTCCTAAT TTCCCTCCAA
56051	AATATCATTA TGCCCCTCGC CGCCTTTTTT TTTTTTTTTT TTTTTTGAGA
56101	CAGAGTCTCG CTCTGTTGCC CAGGCTGGAG TGCAGTGGTA TAATCTCAGC
56151	TCACTGCAGC CTCCGTCTCC CGGGTTCAAG GGATTCCCCT GCCTCAGCCT
56201	CCCAAGTAGC CAGGATTACA AGTGCATGCC ACCACGCCTG GCTAATTTTT
56251	GTATTTTTAG TCGAGACGGG GTTTCATTGT GTTGGCCAGG CTGGTCTCGA
56301	ATTCCTGACC TCAAGTGATC TGCCCGCCTT GGCCTCCCAA AGTGCTGGGA
56351	TTACAGGTGT GAGCCACCGC GCCCGACCCA TATTGCCCAT TGTATTACAG
56401	CGGAAGAAAC TGAGGTATGG ACAGGTAACA TGTCCATGGT CACTTGGCTG
56451	GTGAGGGGCA GAGAGGAGAT TTGAAACCAA ATCTGACTCA CTAGTGTGGC
56501	CGTAACCATG GTAACTATGT CTCTCTACCA TGTGGTCTCC TCTTTATTAA
56551	AGGAAGGGCA AGTTCTGGGA GTTTTGGGAG TTTTGGGCTT GAGTGGGGAA

Table 1 (continued)

Genomic CA125 Amino Terminal Sequence (SEQ ID NO: 1)	
56601	GGGTAGCCAA GTAAAGCAGG TGAGAGAAGG TCTGCTTTAA GGACTGCTGT
56651	TTGATTTTTA TTGTTGTTGT TCAGTGTTCA ATGGGATTGA GTTGACTCTT
56701	TTTTCCCTTC TTGTTCCCCA AAGCATGAGA CTGTTCCGGT CCTTTTCCCT
56751	TTTAACTTCT CAGCTAGAGT TTGTTAGGGC GGGTATGGGC ACCTGGCAGA
56801	GTCTGAGACC TCAGCTTCCA GTAGGCACAC GTTCTGACCC AATACACCTA
56851	CCCTGGTCCC CTAACCTGCT TCTGGTCCCC TAACCTGCTT CTGGGCCCAG
56901	GTAATGCATT TTAGGAACAT CCCACTTTTC TCCTTACCTG GCTTTCCATT
56951	ATCCGTCCAA ACTAAAGCAC CCACCTGTCT GCTTCAGACT CTTGCTTCAA
57001	GCACTCCGTC TGGGTCCTCA GAAATTGACT TACAGTCAGT TCAGATCTGA
57051	CTCAGGCGTG GCCTTCTTTT CTCCTTCCTT GC

Table 2

Genomic Repeats
(SEQ ID NO: 2)

ExonR1

```
   1  AGCAGCCACA GTCCCATTCA TGGTGCCATT CACCCTCAAC TTCACCATCA
  51  CCAACCTGCA GTACGAGGAG GACATGCGGC ACCCTGGTTC CAGGAAGTTC
 101  AACGCCACAG AGAGAGAACT GCAGGGTCTG GTGAGAGCCC CGCCCACCGT
 151  ACTCCTCCCT CGCCCACTTA GACAAACCAG CCCACCTCAC ACTGCCTCGC
 201  CCACTGATGC CAGCCACGCC CACCTCATCC AACCCCAGAC ACCTTTCCCT
 251  GCCCCACCCA CTGATTTTAG CCAAGCCCAC CTCACCCCAC CCAGCCTACT
 301  GATGCCAGCC ACGCCCACCT TTCCCTGCCC CGCCCACTGA TTTCAGCCAC
 351  GCCCACCTCA CCCTGGTCCA CCCCTCCAAT GCCCCACTCT TCCTGGCTTC
```

Exon R2

```
 401  CCGCAGCTGT TGTTTCTCAC CTCCCCTCTC CTTCCTTGCA GCTCAAACCC
 451  TTGTTCAGGA ATAGCAGTCT GGAATACCTC TATTCAGGCT GCAGACTAGC
 501  CTCACTCAGG TGAGACGCTC CTTAAGAAAA ACACAGCCCA ACAGGTGAAT
 551  ATGACCCTAG TCTCTGGGCT CCCTGACTCT GTTCATACTT GGAACAACTA
 601  TTGCCCATGG ATACTAAGCA TCACCACCAG CAGCAGCAGA TAACTATTCC
 651  TAAGACCCAA GGCACTGCAT TATGTACTTT ATATTTAATG CCTCATCAGT
 701  GCTTGCAACA GCCTCATGAA GCAGGAGCAG AAGGGGAAAC TGAGGCCCAG
 751  ATTAAGTGGC TTGTGCCAGG ACACACAAAG CAACTGCAGC ACTTCAGGTT
 801  CTATATCCAA ACTCCTATCC CTTAGGTGGC ACTTCCTCCT CTGCCCCCAT
```

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
851	TATGAACTTG CAGCATGTGG AAAACCCCAA TCTGACTTCC CTCTAAGGGA
901	ACTTGCCCAG AGAATCTAAG AGGGGAGGAA AGGAAGGCGT TCAGCCCTTA
951	CAGGCAGGAG GTCAGCTCCT GAGTGGCTCA GATGCAGCCA CAGAGGGCCT
1001	GGCCGGTCTG AGGGTGACTG AGAGGCACCG AGGGCACTGT CCCTGAGTGC
1051	TGGAAAGGGC AGGTCTTTTA GGGTAGACAG CGGTTGATAT CATTTCCTGC
1101	CTGGCATTCT CACCTTCCAC ACCTCTCTCA CAGAATCTCC AAGTGTGGCT
1151	CTCCCAAGAG AGAGTGTCAG TCATCTACCT CCAGCTTCCT TTCCTTCCCA
1201	GGGGGAAGAG GGGACAGGGG GGCCCTAGTG GCTAAGAGCA TTGGTGAACT
1251	CAGGCAGACC TCAGTTCTGA ACCAACCCAG CTCTGCCATT TACTATCTGT
1301	GACTCTGAGC AAGTGCCTGA AGCCTTCTGT GCCCTATTTC CTGACATATT
1351	ATATATATAA AATACATATA TTATATATAG ACATATTTTA TATACATATT
1401	GAGGCATATT TTATAAACAT GTTTATAGAC ACATTTTTAT ATGCATATGT
1451	TATATACGTA TATAACATAT GTTATATATA ATGTATATAT TATACATATT
1501	GTTATATTGT ATACATGTTA TATATGTTAT AGCATATATA GTACAAGTTA
1551	TATATAACAC ATACATTATG TTACATATAA TGTATATGTT ATATATGATA
1601	TATTATATAT AATTATATAT TATATAAAAC TGTTATATAT AATTATATAT
1651	AATATATAGT TGTTATATAT AATTATATAA TTGTTATATA TTATATACAA
1701	CATATAACAT ACATTATATA TTGTTATATA TAATATAATA TATACATATA
1751	TAACATATGT ATAACTTTTA TGTTATACAT AATGTATATA ACATATATGT
1801	GTATGTGTGA TGTACATAAC ATATCTGACA TTAACATATA ACATATGATA
1851	TAACAATATT ATATGTTATA ACATAATATA TGTTATAATA TAACAATATT
1901	ATATGTTATA ACTTATACTG TCATATGTAA CATATACATA ATATTTTATA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
1951	AATCAGTTTA ATATACATTA TGTTACATAT AATGTATGTT ATATATGATA
2001	TATTATATAT AATTATATTA TACATAATTG TTATATATAA TGCATACATT
2051	GTATTTGTTA CGTATTATAT GCAACATATG GGGATCCTCT AGAGTCGGAC
2101	CAGCGGCAGC AGCTGCCTGC CTTTTNNNNN NNNNNNNNNN NNNNNNNNNN
2151	NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
2201	NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
2251	ATATACATAC ATAACATATG TATAACTTAT ATGTTATATA TAAGTATATA
2301	ACATATATGT GTATGTGATG TATATAACAT ATCTGACATT AACATATAAC
2351	ATATGTTATA ATATGACATA TTATATATAT TACATATAAC GTATATCATG
2401	TATAATATAA TGTGTATATA TAATATATTA AAGTATATAA GTATAAATAC
2451	ATGTAATATT TAAATATATA TTATATATAG TATACATGTG GATACATACA
2501	ACTTCTACAT ATACCTAGTA TATATTCTAT ATATAAACAG TCCATGAATT
2551	ACAATGATTC AACTTATGAT TTTTCAAACT TTGTGATAAT GCCATAGCAA
2601	TATGCATTCA GTAGAAAGCA TACCTTCAAC ACCCATGCAA CCATTCTGTC
2651	ATTCACTTTC AGTACAATAT TCAATAAATT ATATGAGATA TTCAACAGTT
2701	TATTATAAAA TAGGCTTTGT GTTAGGTGAT TTTGCCCACA TGTAGGCTAA
2751	TGTAAGGGTT CAGAGCATGT TTAAGGTAGG ATAGGCTAAC CTATCATGTT
2801	CTGTAGGTTA GGTATAGTCG ATTTTTATTT TTATTTTTAT TTTTGAGACA
2851	GAGTCTTGCT CTGTCACCCA GACTGGAATG CACTGGTGCG ATCATAGCTC
2901	ACTGCAGCCT TGAACTCCTG GGCTCAAGTG ATCCTCCTAC CTCAGCCTCC
2951	TGAGTAGCTG GGACTACAGG TGTGTGCCAC CACACCTGGC TATTTTTTTT
3001	TTAATTTTTT TTTTTTTGTG GAGAGGAGGG TCTTGCCATG TTGCCCAGGT
3051	GGCCTTGAAC TCCTGGGCTC AAGGAATCCT CCCACCTTGG CCTCCCAAAA
3101	TCCTGGGATT ACAGGTGTGA GCCATCACGC CCGGCTACAG GGCATTTTTG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
3151	ACTTATGACA TTTTCAGTTC ACAATGGATT TGTCAGGGCT GGGCATGATG
3201	GCTCACACCT GTCATCCCAG CACTTTGGGA GGCTGAGGCA GGTGGATCAC
3251	TTGAGGCCAG GAGTTTGAGA CCAGGCTGTC CAAATGGCAA AATCTTGTCT
3301	CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGTGACAA CTGTAGTTCC
3351	AGCTACTCGG GAGACTGAAG CGTGAGAATC ACTTGAACTT AGGAGATGGA
3401	AGTTACAGTG AGTCAAGATC ACACCACCGC ACTCCAGCCT GGATGACAGA
3451	GCAAGACTCT TGTCTCCAAA AAACAAAAAA CAGGCTGGGT GCATGGCTCA
3501	TGCCTGTAAT CCCAGCAGTT TGGGAAGCTG AGGCAGGTTT ATCACCTGAG
3551	GTCAGTAGTT CACGATCAGC TTGGCAAACA TGGAGAAAAC CCATCTCTAC
3601	TAAAAATACA AAAATTAGCT GGATGTGGTG GTGGGTACCT GTAGTCCCAG
3651	CTACTCGGGA GGCTGAGGCA GGAGAATGGA TTGAACCTGG GAGGCAGAGG
3701	TTGCAGTGAG CCAAGATCAC ACCATTGAAC TCCAGCCTGG GCAACAGAGT
3751	GAGACTCCAT CTCCAAAAAC AAAAGAAAGC AAAAACAAAA AAATAAAATA
3801	AAAAACCTGT GTTTATCAGG ACATAATACC ATCATGAGTC AAGAAGCATC
3851	TAAATGTACA TGGTAGTTAT ATAAAAATAG TTATATAGTT ATATACAATA
3901	GTTATATATA AACCAGTTTA ATATATGTTA AGTAGAGGTA TATGGTAGTT
3951	ATATAAAAAA TAGTTATATA ATAGTTATAG AGTTATATAA TTATATAAAA
4001	TAGTTATATA TAAACCAGTT TAATATATGT TAGGTAGAGG TATAATAATA
4051	TATATTGTAT ATACTATATA ATATAGTAAT GTATAAAATG CAAAACGATA
4101	TCATATATTT CTATATTAAG TTTATATTTA CAGATCTACA TTTTATATAT
4151	TTTATGTTAT ATACAATTGT GTTATACATA ATATAATTAG TATAGTACTG
4201	ACTTGGGGAA TTGAGCAGTA CCAACCCATA GGGATGTTTG AGGATGAAAA
4251	TATGTGATTA TGAATACAAA ATGCTGGGCC TGCTGCATAG GAAGTATTTA
4301	ATAAATGGTA GTTGTTACTA TAAAGTCGTT CCTACTATAG AGCTACTCAC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

```
4351  AACCTGGGAC ATAGGGAAAG AGCCCGTTTC CCTCTAATCA CTCAATAGTG
4401  GGTGGCTAGG TAGGTGAGTC CACATCCTGT GGCCGGGAAC AGGTGCTGAG
4451  ACATGAAGAC CTTCTGACTG CATGTTGGAC CAGCCACAGT TTCAGACGGA
4501  CCAGCCAAAA AGGGCATTTT CCCCAAGCCA TTTAGCTCCC TTGAGTCTCA
4551  TAACAAATCT CCTAGACCCT GCTGGTCCAT AGGATCTAGA GAGGATGACT
4601  TGAACCTTCT GATCCCACCA TTTGAAAACG CCATGCCATG GGCACCAGTA
4651  GGAGGGCCAC TGCTACGTGC ACCAGTACAA GGGCCACTGC CATGGATTAC
4701  AGATTAACCC TAAGTATAGC TGTCGCACAC CTAGTACTTC AGGAGGCTTA
4751  TTCGGGGCCA TGCAGATCCC TGGCATTATT ATCCTAGGAT CCTACACCAA
4801  GCAAAGCAGG AGCTGCCCCT CCTCATAAAC CCATAAGCCC TCCTCTTGAG
4851  CAAAGCAGCT GGGAAGGCCA GAAGTTATTC AAGCTCCCCT CTGCCCCGGT
4901  TCCAAAGACA GACAGCTCAA GCCTACATGC AGCAAACCCT ATAAAAGTGT
4951  CACCTCTTGG CATTTCTGCC ATGGTAATGC TTTCTGCTTC CACTAATAAT
5001  CCTAGTAATT TGTTTATGGT GGGCATCTCT CTGATGAGAA CCACATTCTT
5051  TTTTTTTTTT TTTTTTTTTT TTGAGATAGA GTCTCACTCT GTTGCCCAGA
5101  CTGGAGTGCA GTGGCGCGAT CTCGGCTCAC TGTAACCTTT GGCTCCTAGG
5151  TTCAAGCAAT TCTCCTGCCT CAGCCTCCCA AGTAGCTGGG ACTGCAGGCA
5201  CGTACCACCA TGCCCAGCTA ATTTTTGTAT TTTTAGTTGA GACGGGGTTT
5251  CACCATGTTA GCCAGGATGG TCTCAATCTC TTGACCTCAT GATCCACCTG
5301  CCTTGGCCTC CCAAAGTGTT GGGATTACAG GCATGAGCCA CCATGCCTAG
5351  CCTGAGAGCC ACATTCTTGT TAACCACAAT TTTCTCAGAG TCTGCATTAG
5401  GGGTTGACAA AGAGTGGAAA GGAAGGACAA AAGGATGGAG AGGTGGATGG
```

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R3

5451 ACTAAGCATA TGTAGGTTCT TACCCAGGCC AGAGAAGGAT AGCTCAGCCA

5501 CGGCAGTGGA TGCCATCTGC ACACATCGCC CTGACCCTGA AGACCTCGGA

5551 CTGGACAGAG AGCGACTGTA CTGGGAGCTG AGCAATCTGA CAAATGGCAT

5601 CCAGGAGCTG GGCCCCTACA CCCTGGACCG GAACAGTCTC TATGTCAATG

5651 GTGAGCAGCT GTGATGTGGT TGGAGGCTCT TCCTCCTTGC TGAGCAGCCT

5701 GTAATCACTG GCTTGAGGTC ACACTCACTG TCAGGCAATT GAAAATTTGG

5751 TCCTGTGCTC TACATGGGAT GACTAATTTC CGGACTTCAT GGTATCTTTT

5801 TTTTTTTTTT TTTTTTTTTG AGATGGAGTC TCGCTCTGTC ACCAGGCTGA

5851 GGTGCAGTGG CATGATCTCA GCTCACTGCA ACCTCCGCCT CCCGGATTCA

5901 AGCAATTCTC CTGCCTCAGC CTCCTGAGTA GCTGGGACTA CAGGTGCATG

5951 CCACCACACC CAGCTAATTT TTGTATTTTT AGTAGAGACA GGGTTTCACC

6001 ATGTTGGTCA GGATGGTCTC AATCTCTTGA CCTTCTACTC CACCTTGCCT

6051 TGGCCTCCCA AAGTACTGGG ATTACAGGCT TGAGCCACCA CACCTGGCCA

6101 GGACTTCATG GTTTCTTCAT CATCATGGAA TGAATTCCAT CAGGGCATTC

6151 TTCCCTGATG TGAGGGCACT GATAGGAAAT CTTTAATGGT CCCTGCTGCA

6201 TGAAACTGCT TCCATTGCAC CAGGGTAGCC CTGACCCCTA TTTGGTCCCC

6251 CACATCTCCT TGTAACTTAC CCACACTCCT CCCTCCTTCT CTGTGCAGGT

Exon R4

6301 TTCACCCATC GAAGCTCTAT GCCCACCACC AGCAGTGAGT ATTCAACTCA

6351 TGTCCACATG CCCATGATCC TACACCAAGC AAAGCAGGAG CTGCCCCTCC

6401 TCATAAACCC ATAAGTCCTC CTCTTGAGCA AAGTAGCTGG GAAGGCAGAA

6451 GTTATTCAAG CTCCCCTCTG CCCCAGTTTC AAAGACAGAC TCAGCTCAAG

6501 CCCACATGCA GCAAACCCTA TAAAAGTCTC ACCTCTTGGC ATTTCTGCCA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

6551 TGGTAATGCT TTCTGCTCTC ACTAATGAGG ACTTCTCCTC AGCTCCTGGG

Exon R5

6601 ACCTCCACAG TGGATGTGGG AACCTCAGGG ACTCCATCCT CCAGCCCCAG

6651 CCCCACGAGT AAGTACCAGT CAATGGCATC TCTATTAGAG CATGCTATCT

6701 CTGTCATTTT TACTCAGATG AAGATGGAAA ATCATAGCAA ATCTACTGAT

6751 AGTGAGTGGA CCAACGAAAT TTGTTGGCCA CCTAGTGTGT ACCAGATCCT

6801 AGAGATACAG GAGGGAAAAC AAAACCAATA CAAAATTTCT GCTCTCAGTG

6851 AGCTTGTATT CTTGTCATGA TGATGATGTT GGTGGTGGTG CTGTTGATGA

6901 CGATGATGAT GATGATGATG ATGATGATGC TGGTGATACT GTTGATGGTG

6951 ATAGTGATGT TGATGACAAT GATGATGATG ATGATGTTGA AGAAAATGAT

7001 GCTGGTGATG GTGGTGGGGG TTATTATGGT AATAATGATA TGTTGAGTGT

7051 GACGATGATG GTGGTGGTGT TGATGATGAT GATGATTATT ATGCTAGTGA

7101 CATTGATGAT GGTAATGGTG ATATCAACGA CAGTGACAAT GATGGTGATG

7151 AGGATGATGT CGGTGATGGT GGTGGGGTTA TGATGGTAAT GATATGTTGA

7201 ATGTGATGAT GGTGATGATG ATATTTGTGG TTCATGATGG GGATTGTCAT

7251 GGTGGTGCTG GTGGTACTTG TGATGACAAT AATGATAATA ATGATGACAA

7301 TGATAGTGAT GATGGTGATG GTGATAATAA AGATAACAGA TATCACCTTA

7351 CAATATTGAG CACTAAATAT GTACCAAGAG CTATGCTCAG TATCTAACTA

7401 CTATTATATA ATCTACTTTA GAAAATGAAT TGTATCATAG ATAAGAAAGG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

7451 CGTGGAAAAT ATTTATTATG TCACTCAATT TAATTGCTGC ATATGGTTAT

7501 TACAAAGTGC TATTCTCTCT ACTTTGAACA TAATGTTTAT TTCACACTCC

Exon R1

7551 CACTATAGCT GCTGGCCCTC TCCTGATGCC GTTCACCCTC AACTTCACCA

7601 TCACCAACCT GCAGTACGAG GAGGACATGC GTCGCACTGG CTCCAGGAAG

7651 TTCAACACCA TGGAGAGTGT CCTGCAGGGT CTGGTTAGTG TCCTGCCCTC

7701 CACACTCTGC CCTGCTCATG ATACCCAGTC CCTCTTACAT CATCCATGCC

7751 AGGGCAATGG AAGAATATCA AACCCAACTC ACTTTTGCCC CAAGAGATGC

7801 AAGCCTCAGC CAGGAGCGGT GGCTCACGCC TGTAATACCA GCATTTGGGA

7851 GGCCAAGGCG GGTGGATCAC CTGAGGTCAG GAGTTTGTGA CCAGCCTGGC

7901 CAACATAGTG AAACCTCATC CCTACTAAAA TACAAAAATT AGCCAAGCAT

7951 GGTGGTGCAT GCCTGTAATC CCAGCTACTT GGGAGGGTGA GGCAAGAGAA

8001 TCACTTGAAT CAAGGAGGCA GAGGTTGCAG TGAGTCAAGA TCATGCCACT

8051 TTACTCCAGC CTAGGCAAAA AAGCGAAACT CCATCTCACA AAAAAAAGAA

8101 AAAAAGAGAG AGATGCAAGC CTCCCCCACC AAGGCCAGCC CTGCCCACCT

8151 CACTTCTGCC TGGCTCTTAC ATAAAACTTA GCCCTCCTAC TCACTGCCCT

Exon R2

8201 CTCCCTCCTC CACAGCTCAA GCCCTTGTTC AAGAACACCA GTGTTGGCCC

8251 TCTGTACTCT GGCTGCAGAT TGACCTTGCT CAGGTGAGAA CTTAGAATTT

8301 CCAGCCTGGC TGCCCCACTT GTACTCACTC CAAAAGACTT TGCACTGCTT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

8351 CCTTGCTGCA CTTCCTAGGG ATATCCTCAC CAAAGGTGGA ATTCAGGAGT

8401 CACAGGCTTC AGGATCAGTG TGTTTCCTGA CAGTAACACC CCTACACTCC

8451 ACCTCAACAG AGAGAATCTG CATGGCCCAT CATCAGGATT GAGCCTCTCC

8501 CTTTATCATC CCTCTGAATT CCCTCCATTC CCTGTGCCTC CCTTTCCTTT

8551 ACATGTTAAA TTCTGTCCCC AGGATTTCTT TCAGGACAAT CATGCCTTAT

8601 CCACGTGATT TCATCCTCAT TTCGAGCTCT TCACTGGGCT CAAGTCCGGC

8651 TCCCCGTCCC GTCCATGAAA GTGTCAGTTT CATCTTGTCA CTGTATCCGT

8701 GACTCCACTC ACAGTCCTCA GCAAGCCAAT AGTCCATGCA CTAAGAGTCG

8751 ATGTGGCTTC TCACCTCTTT CCCAGGTTTC TCATTTCTCT GGTCCTTGCT

8801 GTCCTTCCCT CAGCAATCGC AAGACCCTTC CTAGATAAAC TTTTCATTGT

Exon R3

8851 GATTTTTCCC ACTGACCCTC CCCAGGCCCG AGAAAGATGG GGCAGCCACT

8901 GGAGTGGATG CCATCTGCAC CCACCGCCTT GACCCCAAAA GCCCTGGACT

8951 CAACAGGGAG CAGCTGTACT GGGAGCTAAG CAAACTGACC AATGACATTG

9001 AAGAGCTGGG CCCCTACACC CTGGACAGGA ACAGTCTCTA TGTCAATGGT

9051 GAGTGGCTGT GATGTGGTTG AAATCTCTTC CCCCTTGCTG GGCAGCCTCT

9101 AATCTCTAAC TAGAGATCAC ACTCCCTGCC TGGCCTTTGA AAATTCTGTC

9151 ATGTGCTCTA CATGGGATGA CTAAGGTCTG GACTTCATGG TTTCCTTACC

9201 ATCATGGACT GTGTTCCCTC AGGGCATTCT TTCCTGATGT GAGGATGCTG

9251 ATAGAAAATC TTCAATTGTC CCTGTACCAT GAAACTCGGT TCATTGCACC

9301 AGGGTAGCAT TGACCTCCAT TTGGTCCCCC ACCTCTCCTT GTCTCTTACC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R4

```
9351  CACTCTCCTC CCTCCTTCTC TATGCAGGTT TCACCCATCA GAGCTCTGTG
9401  TCCACCACCA GCAGTGAGTA TTCAACTCAT ATCCACATGC CTCGGTTCCT
9451  ACACCAAGAG GAGCAGGAGC TGGCCCCTCC TCATAAACCC ATTAAGTCCT
9501  CTTCATAAGC AAAGGATTTA GGAGGGCAGA AGTTATTTAA GTGTCCCTCT
9551  GCCCAGCTCA AGAGACCGAC CCAGCTCAAG CTACACATGC AACAAACCCC
9601  ATAAATAGTC TCCCCTCTTG CCATTTCTGC CAAGAGAGTG CTTTATGCTT
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Exon R5

```
9651  TCACTGATGA GAACTTTTCC TCAGCTCCTG GGACCTCCAC AGTGGATCTC
9701  AGAACCTCAG GGACTCCATC CTCCCTCTCC AGCCCCACAA GTAAGTATCA
9751  GTCAATGACA TCTCTATGAG AGCATACCTG ATTAGTGTAA ACATCTCTGT
9801  CATTTTCACT CAAATAAAGA TGGAAAATCA TAGTAAATCT AGTGATACTG
9851  AGTGGACAAA TTTGTTTGTT TGTTTTTTCT CATCCTTTTC ACTTTTTTTA
9901  TTATACTTTA AGTTTTAGGG TACATGTGCA CAATGTGCAG TTTAGTTACA
9951  CATGTATACA TGTGCCATGC TGGTGTGCTG CACCCATTTG CTCGTCATTT
10001 AGCATTAAGT ATATGTCCTA TGCGATCCAA GCCCACGCGC CGCACCACGT
10051 GCAACAGTTT CACAGATTGG ATGGTCCGAT ANNNNNNNNN NNNNNNNNNN
10101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
10151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
```

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R1

10201 CTTCACCATC ACCAACCTGC AGTATGAGGA GGACATGCAT CGCCCTGGAT

10251 CTAGGAAGTT CAACACCACA GAGAGGGTCC TGCAGGGTCT GGTTAGCACC

10301 CTGCCCTCTT CACTCTCCCC CGCCCTGGAT GCCGAGCCCC TCATACAACA

10351 TTCATGCCAG GGCAATGGAA GAATATCGCA CCAACCTTGC CCTCATCCCC

10401 AGAGATGCAA GCCTCACCCA CTGAGGCCAG CCACTCTCAT GGGTGTCTGC

10451 CCCACCCACC TCACTTTTGT CCCCACACAG GGACCTTAGC CCTCCTACTT

Exon R2

10501 ACCTCTCTCT CCCTCCCCCA CAGCTTAGTC CCATATTCAA GAACACCAGT

10551 GTTGGCCCTC TGTACTCTGG CTGCAGACTG ACCTCTCTCA GGTGAGACCT

10601 TAGAAGATCC AGCCTGGCTG CCCCAGTTGT TCCCACTCCA GTAGATTTTG

10651 CTCTGCTTCC TTGCTGCACC TCCTAGGGAT ATCCTCACCA AAAGGGGAAT

10701 TCAGGAGTCA CTGGCTTCTG GACCAATGTG TTTCCTGATA GTAACACTCC

10751 CACACCTCAC CTCAACAGGG AGAATCTGCA TGGTCCATCA TCAGGATTGA

10801 GCCTCTATCC TGATCATCCC TCAGAATTCC CTGCCCCTCC CTTTCATTTA

10851 GGTGTTAAAT TCTGTCCCCA GAATTTCTCT CAAGACAATC ATGCCTCATC

10901 CAAGTGCTTT CATCCCTGTT TCTAGCTCTT CACTGGTCTC AAGTCTGGGC

10951 TCTCCTGTCC CCATGCTATG AGAATGCAGG TTTCACCTTG CACTTTTATA

11001 AGCATGGTTG TATCTGTGAC TCTGTGCACA GTCCCAAGCA AGCCAGTAGT

11051 CCATGCACTC AGAGAATCTA AGTGTAGCTT CTCACCTCTT TCCCAGGTTT

11101 CTCATTTCCT CTGGTTCTTT ACTGTCTTTC CATCAGCAGT CTCAGGACAC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R3

11151 AACCTAAGTA ATCTTTTCAT AGTCATTCTC CCCACCTACC TTCCCCAGGT

11201 CTGAGAAGGA TGGAGCAGCC ACTGGAGTGG ATGCCATCTG CATCCATCAT

11251 CTTGACCCCA AAAGCCCTGG ACTCAACAGA GAGCGGCTGT ACTGGGAGCT

11301 GAGCCGACTG ACCAATGGCA TCAAAGAGCT GGGCCCCTAC ACCCTGGACA

11351 GGAACAGTCT CTATGTCAAT GGTGAGCAGC TGTGATGTGG TTGGAGTCTT

11401 TTCCTTCTAG AGTCTGGAAA GAATCTAATC TGTGGCTTGA AGTCACACTC

11451 CCTGCCTGGC CATTGAATAT TCTGTCATGT GGTGTAGATG GGATGACAAA

11501 GTTCTGGACT TCACAGTTTC TTCATTGTCG TGAACTGTGT TCCCTCAGGG

11551 CACTCTTCCC TGTTGTGAGG ATACTGATAG GAATTCTTTA ATGGCCCCAG

11601 TCCCATGAAA CTCATTGTCC CATGAAACTC ATTTAATTGC ATTGGGATTG

11651 CCATGACCTT ATTGTGTCCC TCGTATCTCC TTAACGCTTA CCAAGTCTCC

Exon R4

11701 TCCCTCCTTC TCTATGCAGG TTTCACCCAT CGGACCTCTG TGCCCACCAC

11751 CAGCAGTGAG TATTCAACTC ATGTCCACAT GCCCCTGATC CTACATTAAG

11801 TGGAGCAGGA GCTGGCCCCT CCTCTTAAAC CCATAAGTCC TCCTCTTGAG

11851 CAAAGGAGCT GGGAAGGCAG AAGTTATTGA AGCTCCCTTC CACCTAGCTC

11901 CAAAGACAGG CCCAGCTCAT GCCCGTATGC AGCAGACCTC ATAATAGTCT

11951 ACCTTCTTGC CATTTCTGCC ATGAGATTAT TTTCTGCTTT CACTGATGAG

Exon R5

12001 CACTTTTTCT CAGCTCCTGG GACCTCCACA GTGGACNNNN NNNNNNNNNN

12051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

12101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R1

12151 ATTTTCAATT CCCACTACAG CTGCTGGCCC TCTCCTGGTG CTGTTCACCC

12201 TCAACTTCAC CATCACCAAC CTGAAGTATG AGGAGGACAT GCATCGCCCT

12251 GGCTCCAGGA AGTTCAACAC CACTGAGAGG GTCCTGCAGA CTCTGGTTAG

12301 TGCCCTTCCC TCCTCACTCT GCCCAGCCCC AGATATCCAG TCCCTTCTAC

12351 ATCATCCATG CCAGGGTGAT GAAAGAAGAT AGCAACAACT TCCCCCCTTC

12401 CCCCCAAGAG ATGCAAGCCC CACCCACAGA GACCAGTCCT GCTTATTGGT

12451 GCCTGCTCCA CCCACCTCAC ATCTGCCCCG ACACACACAC ACCTTAGCCC

Exon R2

12501 CACTACTCAC CTCCCTCTCC CTCCTCTACA GCTTGGTCCT ATGTTCAAGA

12551 ACACCAGTGT TGGCCTTCTG TACTCTGGCT GCAGACTGAC CTTGCTCAGG

12601 TGAGACTTTA GAAGAGCCAG CCTGGGTGCC CAAACTTGTT CCCACTCTAA

12651 AAGACTTTGC ACTGCTTCCT TGCTGCACTT CCTAGGTATA TCTTCACCAC

12701 AAGGGGAATT CAGGAGTCAT TGGCTTGAGA ACCAGTTGTT TCCTGATAGT

12751 AACACCCCCA TGCCCCAACT CAACATGCAA AATCTTCATG GTTCATCATC

12801 AGGATTGAGA CACTACCCTG ATTACCCATC TGAATTCCCT CCTTTCCCTG

12851 ACCCCTCCCT TTCATTTAGG TGTTAAATTC TGTCCCCAGG ATTTCTCTCA

12901 AGATAACCAT GCCTCATCCA CATACATGCA TCCGCCTTTC AAGCTCATCA

12951 CTAGTCTGAA GCTCTGGGTT CTCCTGTTCC CATGCCATGA GAATGCAGGT

13001 TTCACCTTGC ACTTTTATAA AAATTATTAT ATCCATGACT CTGCTTGCAG

13051 TCCCAGACCA AGATAGTGGT CTATGTACTC AGATAATCTA AGTGCAGATT

13101 CTCACCTCTT TCCCAGATTT CTCATTTCCT CTGGTTCCTT GATATGTTTC

13151 CCTCAGCAAT CTCAAGACAA GTCCTAGGCA ATCTTTTCAT TGTCATTCCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R3

13201 CCTCCTACCT TCCTCAGGTC CGAGAAGGAT GGAGCAGCCA CTGGAGTGGA

13251 TGCCATCTGC ACCCACCGTC TTGACCCCAA AAGCCCTGGA GTGGACAGGG

13301 AGCAGCTATA CTGGGAGCTG AGCCAGCTGA CCAATGGCAT CAAAGAGCTG

13351 GGCCCCTACA CCCTGGACAG GAACAGTCTC TATGTCAATG GTGAGCAGCT

13401 GTGATATGGT AGGGGTCTCT TCCTCCTGGC TGTGCAACCA TCTAATCTCT

13451 GGCTTGGGGG CACACTCCCT GCCTGGCCAT TGAAAATTCT GTCACGTGCT

13501 CTACATGGGA TGACTAAGTT CTGGACTTCA TGGTTTCTTT GTTATCATGA

13551 GAGGCATTCC CTCTGGGCAC TCTTCCCTGT TGTGAGGATG CTGATAGGAA

13601 ATCTTTAATG ACCCCTGTCC CATGAAACTC ATTTAATTGC ACCAGGGTAG

13651 TCCTGAACTC TATCGCGTCC CCCACATCTC CTTAACCCTT ACCCAGTCTC

Exon R4

13701 CTCCCTCCTT CTCTATGCAG GTTTCACCCA TTGGATCCCT GTGCCCACCA

13751 GCAGCAGTGA GTATTCAACT CATGTCCATG ATGCCCCTGA TCCTACATCA

13801 AGTGGAGCAA GAGCTGGCCC CTCCTCTTTA ACCCATAAGT CCTCCTCTTG

13851 AGCAAATGAG CTGGGAAGGC AGAAGTTACT CAAGCTCCCC TCTGCCCCAG

13901 CTCCAAAGAC AGACCCAGCT CAAGCCCACA TGCAGCAGAC CTCATAATAG

13951 TCTATCTTCT TGCCATTTCT GCCATGAGAG TGCTTTCTGC TTTCACTGAT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R5

14001 GAGGACTTTT TTCAGCTCCT GGGACCTCCA CAGTGGACCT TGGGTCAGGG

14051 ACTCCATCCT CCCTCCCCAG CCCCACAAGT AAGTACCAGC CAATGGTATC

14101 TGTATTAGAT CATGCCTGAT GAATGCAAAC ATCTGTGCCA TTTTCAGTCA

14151 AATGAAAATG GAAAATCATA ATAAATCTAG TGATACTGAG TGAACCAAAA

14201 AAAATGTATT GGCCACCTAC AGTGTACCAG ACCCTAGGGA TATAGCAAGG

14251 AAAATAGAAC CAATAAAAAC ATCTCTGCCC TCAGTGAGCT TGTGTTCATG

14301 TGATGATATG ATGGTGGTGG TGGTGGTAAT AGTAATAATG ACATATTCAG

14351 TTTGATGATA ATTTATGATT ATGGTGTTGC TGTTGATGAT GGTGGTGGTG

14401 ATGTTACTGA CAATGATGGT GACGGATCTT TGAGGATATT GTCCGTGATG

14451 GTCGTGAAGA TTATGATGAT AATGATGATG TGTTAAGTGT GATGATGATG

14501 ATGATCTGTG GTGATGCTGT TTAGGATGCT GTTCCGTGGT ACCGATGATA

14551 TTGATGTTGG TCGTGGTTAT GTTGTATGAC AATGACAATG ATGGTGATGA

14601 GGATAATCGC CAGTGATGGT GTGGGTTTAT GATGATGATG ATGTGTTGAA

14651 TGTGGTGATG ATAATGTTCG TGGTGGTCGT GATGGGCATT ACTATGGCAG

14701 TGATGGTCAT AATAATGATG GTGATGGTGA CAATGATAGC AAGGATGATG

14751 ATGGCAATAA AGATAGTACA TAACATCAGA CAATATTGAG CTCTGAATAT

14801 GCACCACGAG GAGTGCTCAG CATCTAAATA CTATTATATA ATATATTTTT

14851 GTAAAAATAA ATTGTATTGT TTTAGGCAAG GGAAGCATGG TAAATATTTT

14901 GTCACTCAAT TTAAATTCTG CATATGTTTA AAGATAAGTC TATTGCAAAC

14951 TCCTATTTTC TCTACTTTGG ACATAGTGTT TGTTTCCCAC CTCCACTACA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R1

15001 GCTGCTGGCC CTCTCCTGGT GCCATTCACC CTCAACTTCA CCATCACCAA

15051 CCTGCAGTAC GAGGAGGACA TGCATCACCC AGGCTCCAGG AAGTTCAACA

15101 CCACGGAGCG GGTCCTGCAG GGTCTGGTTA GTGCTCCACC CTCCTCACTC

15151 CGCCCCACCC CAGAGAGTCA GTACCTCCTA CATCATCCAT GCCAGGTGAT

15201 GGAACAAGAT CATACCCACC TCACCCTTGC CCCAAGAGAT GCAAGCCATG

15251 CCCATTGAAA CCAGCCCCAC TCACTGATGC CTGTTACTGC CCCACCTGAC

15301 TTCTGCCCTA CACACCCACA CACGCAACTT AGCCCTCCTA CTCATCTCCT

Exon R2

15351 TCTCCCTCCT CCACAGCTTG GTCCCATGTT CAAGAACACC AGTGTCGGCC

15401 TTCTGTACTC TGGCTGCAGA CTGACCTTGC TCAGGTGAGA CCTTAGAAGA

15451 TCAAGCTTGG CTGCCCCACT TGTTNNNNNN NNNNNNNNNN NNNNNNNNNN

15501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

15551 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Exon R1

15601 NGTGTTAGTC TACTTTTGAA CACTGTTTAT TTCCCATCTT CACTATAGCC

15651 GCCAGCCCTC TCCTGGTGCT ATTCACAATT AACTTCACCA TCACTAACCT

15701 GCGGTATGAG GAGAACATGC ATCAGCCTGG CTCTAGAAAG TTTAACACCA

15751 CGGAGAGAGT CCTTCAGGGT CTGGTAAGAG CCCCACATAC CTCATTCTAC

15801 CGCCACTCAC CATGTTTAGT CCTGCCCACC TCACCTATTG CAGAGCATGG

15851 AAGATCTCAT CTACCTCATC TTGCCCCCAG ATATGCATAC CCCAACCACT

15901 GATGCCAGCC CCACCAACTG TTGCCAGCCC TGCCCACCTC CCTTCTACCA

15951 CACCCCTATG ACTTCAGTCC TCCCACTCAC CTCCCTCTCC CTCCTCCACA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R2

16001 GCTCAGGCCT GTGTTCAAGA ACACCAGTGT TGGCCCTCTG TACTCTGGCT

16051 GCAGACTGAC CTTGCTCAGG TGAGAACTGA GAACAGCCAG TCTGACTGAT

16101 CTGAGCAGTT TGACCTGCTT CCCTTCTGCA CTCCCTGGAG ATGTCCGCAG

16151 CCAGGTGGAA TCCAGGAGGC AGTGGCTCTA AGACCAATGT GCTTCCTGTT

16201 CCCACCACCT CCCACCTCAA CTGAGAGATG CAGAGCCCAT CAGCAGGACT

16251 GAGCTTCTAC CTTGGTCATC CCTCTGAATT CCCTCCTTTC CCCTACCTGC

16301 CTTTCCACAA GTGGTTCAAT TCTGTTCCCA GGATTTCTCC CAAGAAAAAC

16351 ATGCCTCGTC CACTTGCTTT CATCCCCAAA CCTAGCTCTT CACCTGTCTC

16401 AAGTATGAGT TCTCCTTACC CCATGCTACA AGAATGCAGT TTCCACTTTG

16451 CAATTTTATA AAAATCCTTG CATCCATGAT TCTGCTCATA GTTGCTAAGA

16501 GTCAGTGCAC TCAGAGAATG GAAGTATGGC TTCTCACTTC TCTACCAGGC

16551 TTCTCATTTC CTCTGGCCCC CTCCTGTCCT GCCCTGTGGG ATCTCAGAAC

16601 CCCTCCCTAG GCAATCCGTG TATTGTCTTT CCCCAATCTT GCCCTCCCCA

Exon R3

16651 GGCCCAAGAA GGATGGGGCA GCCACCAAAG TGGATGCCAT CTGCACTTAC

16701 CGCCCTGATC CCAAAAGCCC TGGACTGGAC AGAGAGCAGC TATACTGGGA

16751 GCTGAGCCAG CTGACCCACA GCATCACTGA GCTGGGCCCC TACACACTGG

16801 ACAGGGACAG TCTCTATGTC AATGGTGAGT AGTTGTGATG TGGTTGGAGT

16851 CTCTTCCTCC TTGCTGGGCA GCCTCTACTC TCTGCCTTGA GGTCACGCTC

16901 CCTGCCTGGC TATTGAATGC TCATCCATGT TGTCTGTATG TGATGGCTGA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

16951 GGTTGGAACT TCATGGTTTC TATTTCATCT TGGACTGAGT TCATCCTCAG

17001 GATCTGCTTT CTGGATCTGA GGGTGCTGAT AGAGAATCTT CAATGGTTCG

17051 TGTTCTGGGA AATTCCTTCC ATTGCACCAG GGTACCCTGA CCCCTATATA

17101 GTTCCCCACC ACTCCCTTAA CCCTTACCCA CCCTCTTCCC TCCCTCTCTA

Exon R4

17151 TGCAGGTTTC ACACAGCGGA GCTCTGTGCC CACCACTAGC AGTGAGTATC

17201 CACTGATTTC CAGTGCTCCT GATCCTACAT CATGCAGGGC AAGAACTGAC

17251 CCCTCCTCAC ATGCCCCTAT GTCCTCTATG AGCAAAGGAG CTGGGACAGC

17301 ACAAGTTACT CCCTTTCCCT TCTGGCCCAA GTCTCTTCAG AGAGAGACCC

17351 AGCTCAAGCC CCACATGCAG CAAGGTCCAT AAATACTCCT ACCTGCTGGC

17401 ATTTCTGCCA TGAGAGGGTT CAACACTTTC ACTAATGAGG CCTTCTCCTC

Exon R5

17451 AGTTCCTGGG ACCCCCACAG TGGACCTGGG AACATCTGGG ACTCCAGTTT

17501 CTAAACCTGG TCCCTCGGGT AAGTACAAAT CAATCGCATC TCTGTTAGAG

17551 CATGCCTGAT GACTGTCAAC ATCTCTGCCA TTTTCACTTA AATAAAGATA

17601 AAAAATCCTA GTGAATCTAC GGATGAGGAG TCATCCAGCA AACTTAATTG

17651 AGTGCCTAGT TTCTGCAGGG CTCTAGGGAT AAGAAAGGGG ACACAAAACA

17701 GTTAAAAATA TCTGCTGCAA GAAAGCTTAT TTTATTGTGA GGGTGATGGG

17751 AGTTGGTGGT GGTGAAGTTA CTGGAGATGA TGACAATAAG AATGGTGATG

17801 CTAGTGATGA TGATGGTGAT AAGGATGATA ATTATGAAGA TGGTGGTGGT

17851 GATGATGATG ATGGTNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

17901 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

17951 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18001 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

18051 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18151 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Exon R1

18501 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NGCTGCCAGC CCTCTCCTGG

18551 TGCTATTCAC TCTCAACTTC ACCATCACCA ACCTGCGGTA TGAGGAGAAC

18601 ATGCAGCACC CTGGCTCCAG GAAGTTCAAC ACCACGGAGA GGGTCCTTCA

18651 GGGCCTGNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18701 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18751 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

18801 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Exon R2

18851 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNCTC AGGTCCCTGT

18901 TCAAGAGCAC CAGTGTTGGC CCTCTGTACT CTGGCTGCAG ACTGACTTTG

18951 CTCAGGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNAGAAT

19001 TCAGTCGACC TACCGGCTTT GATGATTGCT CAGTTGAACT TAGAAATGCA

19051 CTGTCTGCCC AATGGTCCAG TCTCATGAGT GTGACTCTTT TCTGCCTCTC

19101 TTGGGTATCT GATCAAGATG GACTCAGGAA AAGTGCTCCA GATAACTGTC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

19151 TCCAATATAA CACTGCCCCT GCCATCACAC CCAAATGACT GGAAGTTTCA

19201 CAGGGTCATC AGCAGGGATT GGACTTCCAC CCCGGCCATC CCTCTGAATT

19251 TTCCCTCTTT TCTCCCCACC TCCCTTGCCC TTAGGTGTTA AAATTCTCTA

19301 ACTAAGATTT CTCTCAAGAC AAATGTGCCT CATTCACTTG TTTAATTCCC

19351 AATTCCAGCT TGTCACCTGT CTCAAGTCTA GGCTGTCCTG TCCCCATGCC

19401 ATGAGAATGC AAGAACCACA CTGAAATGTT AGAAAAATTC TTTTATCCAC

19451 AAGTATGCTC ACCGTCCCAA GCTGGACAGT AGTCAGTGCA CTCAGAGAAT

19501 CTAAGTGTGG CTTCTCATCT GTGTACCAGG CTTCTCATTT CCTGTGGGCC

19551 CTTCTTGTCC TTCCCTCCGC AATCTTGGGA CTCCTCCCTA GACAAAACTT

Exon R3

19601 TATTATTATT CCCCTCACCT GCCCTCTCCA GGCCTGAAAA GGATGGGACA

19651 GCCACTGGAG TGGATGCCAT CTGCACCCAC CACCCTGACC CCAAAAGCCC

19701 TAGGCTGGAC AGAGAGCAGC TGTATTGGGA GCTGAGCCAG CTGACCCACA

19751 ATATCACTGA GCTGGGCCCC TATGCCCTGG ACAACGACAG CCTCTTTGTC

19801 AATGGTGAGC AATTGTGATG TGGTTGGAGT TTCTTCTTCC TTGCTGAGCA

19851 GGCCTCTACT CTCTGTCTTG AGGTCACTCT CCCTGCCTGG CCACTGGTCT

19901 TGGCCATGTT GTCTGTATTT GATGATTGAT ATGAACTTCA CCGTTTCTTC

19951 TTCATCTTGT ACTGGAGACC TTCATCCTCA GGACCTTCTT CCCTGATCTG

20001 AGTGTACTTG TATAGAATCC TCAAAGCCCA TGTTCCCTGA AACTCCTTCA

20051 ATTGCACCAT GGTAGCACTG ACCCCTTTTG GTCCCCCACC TTNNNNNNNN

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R4

20101 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN TTCACTCATC

20151 GGAGCTCTGT GTCCACCACC AGCACTNNNN NNNNNNNNNN NNNNNNNNNN

20201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

20251 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

20301 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Exon R5

20351 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNCCTG GGACCCCCAC

20401 AGTGTATCTG GGAGCATCTA AGACTCCAGC CTCGATATTT GGCCCTTCAN

20451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNGACTCCA GCCTCGATAT

20501 TTGGCCCTTC AGGTAAGTAC CAGTCAATGG CACCTCTATT AGAGTATGCA

20551 TGATGAGTGT CAACATCTCT GTCCTTTTCA CTCAAATAAG ATTAAAAATC

20601 ATAGCAAATT GTACGTGATG ATGAGTCACC CAACAAACTT CTTTGAGTAC

20651 CCACTCTCTG CCAGGCCCTA GAGATAAGGC AGGGAACACA AAAGAGGTAA

20701 AAATCTCTGC CCTCAGAGAG CTTCTTTTAT TTTGAGGATG ATGTGGGATA

20751 GTGGTGATGA TGATGTTGCT GGAGATGATT ACAATAATGA TGGTGATGCT

20801 TATGACCATG ATGTGATGAT GATGGTGATT ATGAAGATGA TGATGATGAT

20851 ATTGATGATG GTAGTGGTTT TGACAGTAAT GATGATGTGA TGATGATGAT

20901 GATAGTGGTG GTGGTGATTA TGGGAAGGAT GACAGTGGTG GTGGTGATGG

20951 TGGTGGTTGT GGTGGTGATT GACAATGTGG TGGTGATATT GACAATGAGG

21001 ATGATGATGA TAGTGGTGGT GGTTATGATG GTTAAGGATG ATGTGATGAT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

21051 GGTGTTGGTG ATCACGGTAC TAGTGGTGGT GATGTGGACC GTCATGGTTG

21101 TGGTTGTGGT GGTGATGGTG GTGATCATGA TGATAATGAG GATGATGGTG

21151 GTGATTGTCA TGATGGTAAG GATGAAACAG TGATGGTGTT GGTGACCATG

21201 TTCCTGGTGG TGATGGTGCA GGTGATGATG TGGATGATGA TGGTGATGGT

21251 GGTGGAGATG ATAGGGATTA TGAATATGGT TCGGGTCTCT GACTGGTGGT

21301 GGTGATGACA ATAATGAAAA TGATGGTCAC AGTGTTGGTG ATGATGATGG

21351 TGGTGATAAC AAAGGTAATA GATAGTGTCT AGTATTATGG AACACAGAAC

21401 ATCACCAAAG GTTATGCTCA GCATCTAACT ATTATTATTT AGCATGCTCT

21451 ATGAAAAACT TTGATCGTTA TAGTCAAGGG AGGCATGAAA ACCTTCTATT

21501 TTATCACTCT CTTTAAATCT GGTTGCATAT GTTTAGAAAT AAATCTATTA

21551 CAAACTCTTA AATGTTCTCT ACTTTTGAAC ATAGTGTTTA TTTCCCACCT

Exon R1

21601 CCACTACAGC TGCCAGCCAT CTCCTGATAC TATTCACCCT CAACTTCACC

21651 ATCACTAACC TGCGGTATGA GGAGAACATG TGGCCTGGCT CCAGGAAGTT

21701 CAACACTACA GAGAGGGTCC TTCAGGGCCT GGTGAGAGCC CTGCCCACCT

21751 CACTCTGCCC TGCCCACCTT GTCTTGTTCC ACCTACGTCA CCCATTCCAA

21801 GGCATGGAAG AAGATCTCAC CCACCTCCCC TCACCTGAGA GATAGCCCCG

21851 CCCCCTGATT ACAGCCCCTT CCACCTTACA TCTTCCTCAC TTCTATGTCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R2

21901 TCAGCCATCT TACTCACCTC CCTCTTCCTC CTCCACAGGC TAAGGCCCTT

21951 GTTCAAGAAC ACCAGTGTTG GCCCTCTGTA CTCTGGCTGC AGGCTGACCT

22001 TGCTCAGGTG AGAACTGAGA ATAACCAGTC TGGCTACCCC AAGTGTTCCC

22051 AGGCCCAAGG AGTTTCATCA GCTTTCTTCC TTCCCTCCCT ATGGAAGTCC

22101 TCAGCACAAG TGGAATTCAG GCGTTGGTGG CTCCAGGATG AACATATCTG

22151 CTGATCCTAC CACCTCCCCC ATCAATCGAG AGAATTTGCA GGGCCCATCA

22201 GCCAGATCAG GCTTCTACTT TGGTCATCCT TCTGAATTTC TTACTTCTCC

22251 CTACCTCCCT CTCCTTCAGG TGTTAAATTC TCTTCCAAGG TTTCTCTCAA

22301 GATAAACATC CCCCATCCAC TTGCTTTCAT CCCCAATTCC AGCTCTTAAT

22351 ATTTCTCAAG TCTGGGCTCT CCTGTCCCCA TACCATGAGA ATGCAATTTT

22401 ATAAAATTCT TGTATTCCTG ACTCTACTCA CATTCCCAGG CTGCCTGGAA

22451 GTTGGTGCAT TCAGAGAATC TTAGTATGGC TTCTCACCTG TCTACCAGGA

22501 TTCTCATTTC CTCTGTCCCC TTCCTGTCCT GCCCCCAGGA ATCTCAGGAT

22551 GCCTCCCCAT AGGCAATCTA TTTAATGTCA TCCCCCTTAT CTGCCCTCCC

Exon R3

22601 TAGGCCAGAG AAAGATGGGG AAGCCACCGG AGTGGATGCC ATCTGCACCC

22651 ACCGCCCTGA CCCCACAGGC CCTGGGCTGG ACAGAGAGCA GCTGTATTTG

22701 GAGCTGAGCC AGCTGACCCA CAGCATCACT GAGCTGGGCC CCTACACACT

22751 GGACAGGGAC AGTCTCTATG TCAATGGTGA GCGGCTGTGA TGTGGTTGGA

22801 GATTCTTCCT CTTTGCTGGA CAGCTTCTTA CTCTCTGACT TGAGGTCACA

22851 CTCCCTGACT GGCCATTGAC GTCTTGGCTA TGTTGTCTGT ATGTGATGAC

22901 TGATGTCTGA ACTTCATAGT TTCTTCATCT TGGACTGAGT TCATCCTCAG

22951 TACCTTCTTC CCTGATCTGA GGGTACTGAT AGAGAATCTT CAAAGGCCCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

23001 TGTTCCTTGA AACTTCTTCC ATTCCACTAG GGTATCTGTG ACCCCTATTT

23051 GATTCCCCAC CTCTCCCTTA ACCCTTACCC ACTCTCCTCC CTCCTTCTCT

Exon R4

23101 GTGCAGGTTT CACCCATCGG AGCTCTGTAC CCACCACCAG CAGTGAGTAT

23151 TCAACCGATG CTCCAGTAGC CCCAATTATA CACCAAGCAG GGCAGGAGCT

23201 GTCCTGTCTT CCTATGCCCC TATGTCCTCT TCATAAAGGA AGGGGCTGGG

23251 AGGGCACAAG TTATTCCCTT TCCCTTCTGG CCAGCTCCAG AGAGAGACCC

23301 AGCTCAGGCC CGATATGCAG CAAGGCCTGT AAATAGTTTT ATTTGCTGAC

23351 CTTTCTGCCA TGAGAGGCTT GGATGCTTCC CCTGAAGAGG GTTTCTCTGT

23401 AGCTCTTGGG ACTACCACAG TGGACCTGGG AAACTCTGGG GATCCACCCC

23451 TTCTACTGGT CCCTTGAATA AGTACCAGCC AATGGCACCT CTGTTAGAGC

23501 ATGGCTGATG AGTGTAAACA TCTCTTCCAT TATTCAGTCA AATAAAGATG

23551 GAAATTCTTT ATAAATCTAG TGATGATGAG CCAACCAACA AACTTTATTG

23601 AGCATTGTGA CAAGCCCTGG GGCTCTGCCA AATCCTGGGG ATATGGCATG

23651 GATCATGAAA CAATTAATAA TCTCTCCTCT CAGAGAGCTA TTTTTATGAT

23701 GATACTGATG GTGGCAATGA TGATGATGTT GATGGTGATT ATGACCATGA

23751 TGACAATGGT GATGGTGGTG GTGATGATGG TAATGATGAT GATGGTGATG

23801 TTGGTAATGA TGGTGGTGAT TATGACAATA ATGATGGTGA TGGTGACAGG

23851 GATGGTGATG ATTATGATGG TGGTGGTGAT AACAAAGTTA ATGGATAATA

23901 TATGAACTTA TTGGCTACTG AATATGCACC AAAGTGCTAT GCTCAGTGTT

23951 TAACTAGTAC TATTTAATAT GATTTCTAAA AAAAATCTTG AATTATTATA

24001 GGCAGAAGAA TCATGGGAAC CTTTTATTTT GTCACTCACT TTAAGTCCTA

24051 TTGCATATTT TTTAAGTCAA TTGCAAACAC AGTTTCTCTG CTTTGAACAT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
24101	TGTGTTTATA TCCAGTCACC CCAATAGTGC ATAAACCTGC TGATTGGAGC
24151	AACTGTGTCT TACTCCCTTG TGCTTCCCTA GTATCTGCTT CAGGACCTTG
24201	TACATGGTAG ATCGACAGAT TTAGATCTAC AGGAAAATAT GGATTTTCCC
24251	AGGGAAGGAA GGAATGAAGT ATGCTTTCTT ATAATGTATG GAAACTTTCC
24301	TCTTCTGCCT TGGTTCAACT TTAGTGTCTG CCAGAGTTTA CACTGGAAAA
24351	CTATATGGCA TCTGCTCCAC TCCCTCATCC ATGACAGACA TCATTAATTG
24401	ATTGCAGCAT TCATGGCAGA CATCACCAAT TGATAATAGC ATTCATTTTC
24451	TCTCAGTTCA AAACAGCTTC AGAATGGTTA CCAAAAAAAA AAAATTCAGT
24501	CGCTACCAAT TCAATTGGAG CTGACTCAGG ATTATGGGAC AGAATTCAAG
24551	AGAGTTAGGT TCCTTGATGA TGTGTAGTGG CTATTTGTTT TCCGGTCCAG
24601	GCTAATNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
24651	NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN
24701	CTTTGTGCGG CAAAGTTCAG GGGCCCCAAA AATTTCTGTG CCCCAATCAT
24751	GGCGGACCTA GGTTTAGGCA CAAATTCCAG GGATTAAGTC CCTGGAGATG
24801	TTATGGCTTT TGGTTTTCCT AGAAAGGCTC AGCTCAGGCT CAGCTTGGTC
24851	ATGCTGATAT CCTTTCTTCC ACTTGGTCGA TTTGGCTGTT GATACTTATG
24901	TATGCTTCAC GAAGTTTTTG TGCTGTGTTT TTCAGCTCCA TCGGTTGGTT
24951	TATGTTCCTC TCTAAACTGG TTATTCTAGT TAGCAATTCC TTTAACCTTT
25001	CATCAAGGTG CTTAGCTTTG CATTGCATTA GAACATGCTC CTTTAGCTCA
25051	TCGTACTTTT TTATTGCCCA TCTTCTGAAG CCTACTTCTG TCAATTCATC
25101	CATCTGATCC TCCATCCAGT TCTGCACCCT TAATGGAGAG ATGTTGCGGT
25151	CATTTGGAGG AAAAGAGGCA CTCTGGCCTT TTGGGTTTTC AGCATTTTTT
25201	TGTTGATTAT TTCCCATCTT CAGGAGTTTT AGTTTCAGGC TTTGAGGCTG
25251	CTGATCCTTG GATGGGGTTT TTATGGGGGT CTTTTGGTTG TTGTTGTTGA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

25301 TGATGATGAT GTTATTGTCA CTTTCTGCTT GTTTTTCTTT CAATAGTCAG

25351 GTCCCTCTTC TGTAGGGCTG CTGCAGTTTG CTAGGGGTTC ACTTCAGGCC

25401 CTATTCATCT GATTCGCTCC CATGTCTGGA GGTGTCACTC AAGGAGGCTT

25451 GGAGAGCAGC GAACATAGGT GCCTGCTTCT TCTGGGACCT CTGACCTCGA

25501 GGGACACCAA CCTGATGCCA GTAGGATCGC TCCTGTGTAG GGTGTCTGAC

25551 AACTATTGTT GGAGGGTTTC GCCCAGTTGA CTGGCATGGA GAGCAGGACC

25601 CATTTAATGA AGCACTTTGT CCCCTGGTGG AGAGGGGGTT CTTCACTGGG

25651 GGGAAACCAC ATGTCTGGGC TGCTTGGATT CCTCAGAACT ACCAGAGGAG

25701 AGGCTAAGTC TGCTGGTCCA CAGAGACTAC AGCCATCCCT CCCACTAGGG

25751 GCCCAAGCCC AGGGAGTCCA AATTCTGTCT CTGAGCCTCT GGCTGGAGTC

25801 TTTGGAGATC CTGCAAGGAA GCTCTGCCCA CTGAGGAAGG ATGGGTCAGG

25851 GTTAGCCCTG AAGAGGCACT CTGGCTGCAG ACTGCCACAG CCGGTGTGTT

25901 GGGCTGTGGG GACAAGTCTT GGGACCAAGC CGTCCAGCCT ACCCGGCTCT

25951 AGCAGGGGAA AAGTACAGCC TGGAGCTATT GAAAGGGGTG CCGCCCTTCC

26001 CCCGCCCAGG GAGCTTAGCG TGTTAGGCAG TTGTGAGTCC AGTGCTGGCT

26051 GTCGCCCCTT CCCCAAGGAA CAAAAAAGAC TTAGCAGGCA GCCGCAGCCA

26101 GTGCTGGTCG CCCCTCCCCC GGGGAGTTCC GTAGGCTTAG GCAGATTCCA

26151 GCTGTAAGAA TCTGCGTGTT CTGGGGTTGG GACACTAGGT CCCAGTGGCA

26201 TGGGTTCGCG AGTGAGATCT TCCAATCTGT GAGTTGCACA GTTCCGTGGA

26251 AAAAGCACAG TTTCCCCCTC TTGGGTAGCC CGCTCACTCA CCACCTCCCT

26301 TGGCTGGAAG GAGGGGGTTC CCCTTCCCCG TGTGTCTCTC AGGTGGGCCA

26351 CCACACCACA CTGCTCTTCC TTCTCTCTGT GGGTCACTGC CAGCCTTCTA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
26401	GTCAATTTTG ATGAGGGAAC CTGGACATTT TGGTTGCCAG GAAGGATCAC
26451	ACACTTATTA CAGTTTTTTT CAATGTGAGC CTCTGAGCGC TGCTGCTTAT
26501	AGTCGACCAT CTTGGCCCCC AGAGTCACAC ATCTGTTATT TTTTGATGTT
26551	TTGATTGTGG CAATTCTTGC AGAAGTAAGG TGGTATCACC TTATGGTTTT
26601	GATTTCCCTG GTCATTAGTG ATGTTGAACA TTTTTTTCAT ATGTTCATTA
26651	GCCATTTGTA TATATTCTTT CAACAACTGT CTATTTATGT CCTTAGCCCA
26701	CTTTTTGATG GGATTGTTTT TTTCTTGCCA ATTTGTTTGA GTTCGTTGTA
26751	GATTCTAGAT ATTAGTCCTT TGTTGGATAT ATAGATTGTG AAGATTTTCT
26801	CCCACTCTGT GGGTTGTCTG TTTACTCTAC TGACTGTGAA GGAAAAGTCA
26851	ATTTCTTATA CGAATTTGTC TCACTCCTAC TTCCAAATGA GATCCTGGGG
26901	TTTTTTTTTT CTGTTAATCC TTCACAATAC TTCTCCCACT TTTTTGAACT
26951	CATTTGTTTA TATTCTGTTG TCTGCTTCTC TTTTATAGGA ATGTGACTTC
27001	TTATGGGCTT TCTCTATTAT ACCACATATG GGTTTTTGTT TTGTTTTGTT
27051	TTGTTTTGTT TTGTTTTTGT CCTCGGATCC ATTCTCCAAC CTCCTCCAGC
27101	CTTCCCGTGC TCTGTGGGAT AGACGTCTGA CTCATGAAAA CTACATTTCC
27151	CAGGCTCCCA TGCTAACTAG CTTCCTGTTA GGTTCAGCCA ATAGGAGGCA
27201	TTGGTGGGAC AATGGTGGGC GGGGCTATGG AAGGGCCAGA GTATTTCTGT
27251	ACCCCGCCCC CCTGCTCCCC TTCCAATGTT CCTGGAGCGG TGTAGGACCA
27301	ATACTGTATA TATGGAAGGA AGGCAAGGTG GATAGATTGG AAGGAAGAAG
27351	TGACAGATGG AAAGAAGAAG TGATAAATGG CAAGCGAGGC AAGGGAGCAG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

27401 AGGATGGATG AGTGGATTGC AAGAAAGAAA AAAATGGATG AAATATAAAA

27451 GGAGCAGGAC AGATGGATAA GTAGATGGAA GTAAGAAAAG ACTGGTGTAA

27501 GAAAGGAACG ATTGATGATG GATGATGAAT GGATCAGTGG TGATTGGGTG

27551 AAGGGATGAA TGGATGGATG GACAGATGGA TGAACAGATG GGTGGGTGGA

27601 TAGATGGATG GATGGATAAA ATGGGTAGGT GGATGGATGG ATGGATGGAC

27651 AGATGGGTGG GTAGGTGGAT GGATGGATAG ATGGATGGAT AAGTGAATGG

27701 ATGGATGGAT GGATGGATGG ATAAATGGAT GGATGGGTGA AAGGAAGGAA

27751 AGAAGTGAGA GAAGGAAGAG GAAGGATAGA CAGATGTTAG AAGGTACAAA

27801 TGAAAGGAAG GAAGCCAGCA AGAAAGAAAG GATGCATTAA TAGAATGAAA

27851 GATGGAAGGG AAGAAGAAAG GATGGAAAGA GAGAAGGAAG AATGAACAGA

27901 AGGAAGTTCA AGAGTGGTGA AAAGAAGAAA GGCAGGGAGA GAAGGAGAAG

27951 TAAACTTTTC TTCTAGAGAT TTGTCTTAAA CCTTAGCTTG GCTGGACACT

28001 GTGGTTCACG CCTGTAATCC CAGCACTTTG GGAGGCCGAG GCGGGTGGAT

28051 CATGAGGTCA GGAGATCAAG ACCATCCTGG CTAACACGGT GAAACCCTGT

28101 CTCTACTAAA AATACAAAAA AAATTTAGTC AGGTGTGGTG GTGCATGCCT

28151 GTGGTCCCAG CTACTCAGGA GGCTGAGGCA GGAGAATGGC ATAAAACCTG

28201 GGAGGCAGAG CTTGCAGTGA GCCAAGATCA CACCACTGCA CTCTAGCCTG

28251 GGCGACAAAG TGAGACTCTG TCTCAAACAA AAACAAAACA AAAAAACAAA

28301 AACAAAAAAC AAAACCAAAC CAAAACAAAA AAAAAAACCT TAACTCATAC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

28351 TTTCATAAAG TTCCACACAC AGGGAGTGAT TAGAAAGCAT TTGCTGATAT

28401 ATTTTATATA ATAAACATGT ACACCATATT GACCTGTGTG CCCAGCAGTG

28451 CTTACATGAT TTACAATGAT TAACTTGTTT AAGCTTCATA ACAACGGTTG

28501 AGGCAGGAAA CATCATTGTG AACCATTGTC ATCTCATTTT ACAGATGAGT

28551 AAACTGAAGT GCTGAGAGGT TGGTTATGGC TGCAAAGATT GTTGGCCATG

28601 TTAACCAATG CATAGAAGAT TAGCATACCT GGTTGTGAGT GCAGGAGAGA

28651 GAGAGAAATG GGAGAAAGGC AGAGAAGGAT CGATGGGGAG AGAGGAAGAG

28701 AGAGAGAGAG AATAAATTTT TTAAAAATGT CTAGAGTCAT GACTTCCGCA

28751 TCAGTGTGGT AATATGCAGC CTTTACCCTG GGAAAGATCA GAACCATTGG

28801 TACTTTTTAC AGAATCTTCC CTTCCTGCAT TTGGGTAGAA GGACCCCATC

28851 TGGACATCCC AAATCATTAA GCACACCCTT ACTGGCTGCT GGAGTTGTCT

28901 CCATTAAAAG TCACCGTTGG GTTTATTAAG AGGCGGACAC AGGGTCCTTA

28951 GAACACACTG CCCCCACCTG TCCCACACCA CCCCCCACCC ACCCATCATC

Exon R1

29001 CTCCCCAAGA GCTTCATCTC TCTCTCTCTT CCCCCTGCCC TAGCCGGGGT

29051 GGTCAGCGAG GAGCCATTCA CACTGAACTT CACCATCAAC AACCTGCGCT

29101 ACATGGCGGA CATGGGCCAA CCCGGCTCCC TCAAGTTCAA CATCACAGAC

29151 AACGTCATGC AGCACCTGGT GAGAGGCCTG CCTCCCGCTG CAGCCCTGCC

29201 ATGCCCATCC TAGGGCTGTT GCCTGCCTGC CTCTGACCAA CCCAAGCTCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

Exon R2

29251 CTTCTCCCTC TGCAGCTCAG TCCTTTGTTC CAGAGGAGCA GCCTGGGTGC

29301 ACGGTACACA GGCTGCAGGG TCATCGCACT AAGGTGAGAA ACTCCCCCAC

29351 CCACAGCGCA CCACCAAGAA CTTAGAGTTC TGACTGGGAG GTCCCTCTTG

29401 GGTTGGGGTG GGCTACATAT TTTTTTAAAT CTTTTTATCT TTCCTTTTTT

29451 TTTTTTTGAG ATGAAGTTTC GCTCTCGTTG CCCAGGCTAG AGTGCAATGG

29501 CACGATCTTG GCTCACTGCA ACCTCTGCCT CCCGGGTTCA AGTGATTATC

29551 CTGCCTCAGC CTCCCCAGTA GCTGGGATTA CAGGCAGGCA CCACCATGCC

29601 TGGCTAATTG TTTTGTATTT TTAGTAGAGA TGGGGTGTCT CCATGTTGAT

29651 CAGGCTGGTC TTGAACTCCT GACTTCAGGT GATCCACCCT CCTCAGCCTC

29701 CCAAAGTGCT GGGATTACAG GCGTGAGCCA CCATATCTGG CCCCATTCTT

29751 TTTTTTTAAA TGAATTTAAG GAGTGCAAAT GCAGTTTTTG TTACATGCAT

29801 ATATTCCATA GTGAAGTCTG CAGACAGTAG ACTTCCAGAC AGTAGCTTCT

29851 GGTGTATCAC CCGAATAGTG TACATTGTAC TTATTAAGTG AGGTTCCCCA

29901 CCCTTCTCCC ACTCTCCCAC CTTTCTGAGT ATCCAGTGTC TATTATTCCA

29951 CACTCCAGGT CCATGCTCTC ACGTATAAGT GAGAACGTAT GGTATTCCAC

30001 CATGAGCTAA TGGACATGGA GTCCATTGGC TCCCACTTAT AAGTGAGAGC

30051 ATGCGGTATT TGACTATTTC TGAGTTTCAC TTAAGATAAT GGACTCCCAT

30101 TCCATCCATG TTGCTGCAAA ATACATGATT TCACTCTTTT TATGGCTGAA

30151 TAGTATTTCG TGGTATATAT ATATACCACA TTTTCTTTAT CCAGTCTTCT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

30201 ACTGATGGAC ACTTAGGTTG GGTCCATACC TTTGCTGTTG AAATAGTGCT

30251 GCAATAAACA TACACGTGCA GGTGTCTTTC TTATATAAAT GATTTCTTTT

30301 TTTCTTTCCT TTTTTTTGAT ATAACGAATT TCTTTTATTT GGGTTAAATC

30351 CCCCAATAGT GGGATTGNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

30401 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

30451 TGACCTGTCC GTATTGATAT ATAAAATGCT GCATTTAAAG TGTACAACTT

30501 GATATTTTGG TATACATTGT TAAATCATGG CCACATTTCA GCTAATTAAT

30551 ATATCTATTA TCTCTACATA GTTATCATGT TTGTACCCTT TGACCAGCAT

30601 CACCCCATTT GCTCCTCCTC CCAGCCCCTG GCAACCACCA TCCTACTCTC

30651 TGCTTCTATG AGTCTGACAA TTTTAGATTC CACCTATAAG TTAGATTATG

30701 CGGTATTTGT CTTTCTGTGC CTGGCTTATT TCACTTAGCC TAATGTCCTC

30751 CAGCTCCATC TATGTTATCC CAAGTGGCAG GATTTTCATC TTTCTTATAT

30801 ATTTCATTGT ATATGTGTAT GCCACATTTT CTTTACCCAT TCATCCATTG

30851 AAGGTCATTT AGCTTGTTTC CATATCTTGG CTATTTTGAA TAGTGCTGCA

30901 ATGAACATAG GAGTGCAGAT ATCTCTTTAA GATACTGGTT TCATTTCTTT

30951 CTTTCTTCTC TTTTTTTTTT TTCTGAGACA GAGTCTGACT CTGTCGCTCA

31001 AGCTGGAGTA CAGTGGTGCA ATCTTGGCTC ACTGCAAACT CTGCCTCCTG

31051 AGTTCAAGCG ATTCTCGTGC CTCAACCTCC CAGGGAGTTT TGCTCTTGCT

31101 GCCCAGGCTG AAGTGCAGTG GTGCAATCTT CACTCACCAC AACCTGTGCC

31151 TCCCGGGTTC AAGCGATTCT CGTGCCTCAG CCTCCCAGGT AGCAAGGATT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

```
31201  ACAGGCGCCC AACACCACAC CAGGCTAAAT TTTTTTGCAT TTTTAGTAGA

31251  GACGGGGTTT TGCCATGTTG GCCAGGCTGG TCTCAAATTC CTGGCCTCAA

31301  GTGATCCACC TGCCTCAGCC TCCTGAAGTG CTGGGATTTT ACAGGCATGA

31351  ACCACCACAC ATGGCCTCAT TTCTTTTAGA TATATATGGG TTGAGCTATT

31401  CTCAGAGGGT CCTTTTCTGC ATCTATTTAA GATCACATTT TTTTTATATT

31451  GTGGCAAAAA TACATGTAAC ATAAAATCTG CCATTTTAAC CATTTTTAAA

31501  TGTACAATTC AGTGACATTG ATTATATTCA CAATGTCATA CAGCCATCAC

31551  CACTATTTAT TTCTAATACT TTTCCATTGG GTAGATCCCC AACAGTGGGA

31601  TTGCTGGGTC AAATGGTAGT TCTGATTTTT TTTTTTTGTT TTTTGAGAAA

31651  TCTCCATACT GTTTTTCATT TGAGGTTGTA CTAATTTACA TTCCCACCAA

31701  CAGTGTATAA GAGTTTCCTA GGCCGGGCAT GGTGGCTTAT GCCTGTAATC

31751  CCAGCACTTT GCGAGGCCCA GGTGGGTGGA TCATGAGGTC AGGAGATCGA

31801  GACCACCCTG GCTAACATGG TGAAACCCCG TCTCTACTAA AAATGCAAAA

31851  AATTAGCCGG GCGTGGTGGC GGGTGCCTGT AGTCCCAGCT ACTGGAGAGG

31901  CTGAGGCAGG AGAATGGCAT GAACCCTGAA GGCGGGGCTT GCAGTGAGCT

31951  GAGATCGCAC CACTGCACAC TTCAACCTAG GCGACAGAGC GAGACTCCAT

32001  CTCAAAAAAA AAAAAAAAAA AAAAGGTTTC CTTTCAGTGC ATCCTTGCCA

32051  ACTTGAGTTT TCTGGGTTGG TTTGCACTCT CATGGTATTT ACTAGATACT

32101  TCTCCATTTA TATTTTTACT CAACCCATGC CCATAACACC ACTCCTCTAC
```

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
32151	CATTCCCACC AACCATGTAT AAGAGTTCCT TTTCTTGCAT CCTTGCCAAC
32201	TTGACTTCTT TGGGTCAGTT TGCACTCTCT TGGTATTTAC TATTTACTTC
32251	TCCATTTATA TTTTTAGTCA ACTGATGCCC ATGGCACCGC TCCTCTGAGG
32301	CAGGTGCTGG GTACTAGAGT GATAAGACAG ATGCTGTCCC TGCCCTCACC
32351	CAGTGGAGAA GAACAGATGC TAAACAGGAA CATAAATATC TAAGTAAAAT
32401	GGCTTCAAAT GGAGTAAAGT GATATGAAAC ATAAATAAAT AGCAAGTGAT
32451	GGGTAGAGCA ACTTTACCCA GGATGAATCT TGGGCTGTGT CCCAAATGGC
32501	CATGAAAACT GTTCCAGGCA GGGAGAACAG CATGAGAAAA GGTCTTGAGG
32551	TGCAAATGAG CTTGGCATGT TCTATGAACA GCAAAGAGGC CAGTGTGGCT
32601	GGAGCAGAGA GAGAGCAAGA AGAAAAGAGA GAAAGGATGA GACTCAAGAC
32651	ATCAGCAAGT TTGAAGGGCC TTGGAGGACT TGGATTTTTT TTTTTAAGAC
32701	AGCTTTGTTC TTGTTGCCCA GGCATGATCT CGGCTCACCA CAACCTCCGC
32751	CTCCTGGGTT CAAACGATTC CTCTGCCTCA GCCTCCCGAG TAGCTGGGGG
32801	TAACAGGCAT GTGCCCACCA CACCTGGCTA ATTTTGTATT TTTAGTAGAA
32851	ATGGGGCTTC TCCATGGTTG GTCAGGCTGG TCTCGAACTC CCGACCTCAG
32901	GTGATCCGAC CGCCTCGGCC TCCCAAAGTG CTGGGATTAT AGGTGTGAGC
32951	CACTGCACCT GGCTTGGATT TTTTTTGTTC TATATTGTGG TAACATACAC
33001	ATCACATTAA ATTGATCATT TTAGCTATAT TTCCCGTTCA GTGGCATCAA
33051	GCACATTCAC ATTATTGTGC AACCATCACC ACTATCATCC ATCTCCAGAA
33101	CTTTCTCATC TTCCCAAACT GAAACTCCAT CCCCATGAAA CACTCATTCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
33151	TCATCCCCCT CCTCAAGCCT CTGGCACCCA CCATTCTACT TTCTGTCTCT
33201	GTGAATCTGA TGATTCTGAG GACCTCCTAT GAATGGAGGA ATCATATGGT
33251	ATATGTCCTG GTTTATACTG TATGGCTGGC TTATTTCACC AAGCATAATG
33301	TCCTCAAAGT TCATCCATGT TGTAGCATGT GTCAGAATTC CCTTCCTTTT
33351	CCACTTGTAT GTAAATGCTG TATTGTGTTT CTCCATTCAT TAGGACTTTG
33401	ATTTTTGCAG GGAGTTGTCA AGGGGTGCTG GGTTCTGGGG CTTCAATATA
33451	ATAAGAGTAA GCTAAACTGG TTCATTTCCT CCTTCGTGGA GACCATGTTC
33501	TGGTAGGAAC AGGAACAAAT AATTTATGAT TACATAGAGG GTGACCAGGG
33551	CAGTGACAGG GGAAGAGTGG AGGATTGTGG GACCCAGAGG AGGCTCCTGA
33601	CCTTGCCTAG GAAGATAGGA GGAGGAAGAG GAGGAGGAAG AGGAGGAGGA
33651	AGAGGAGGAG GAGGAGGAGG AGGGAGTCCT CTAAGCTGAG ACCTGGAGGA
33701	TGACCAGGAA GTTATCCAGG TAAGGAGAAA TGGGGAGAAG CTTCCAGACA
33751	AAAGTAACAG CAATTGCAAA GATCCTGAGA TGATAGATAA GGTCAGGTGG
33801	AGAAAGTGCA AACTGTCAAT GAGACCAAAA TATGGACTGT GAGTTGTGCA
33851	GTGACCACAA GTGGAGAGGT GCTAGGTGGC CTTCATCCCC CAAAGCTGCA
Exon R3	
33901	CCTCTCCCTC CTCAGGTCTG TGAAGAACGG TGCTGAGACA CGGGTGGACC
33951	TCCTCTGCAC CTACCTGCAG CCCCTCAGCG GCCCAGGTCT GCCTATCAAG
34001	CAGGTGTTCC ATGAGCTGAG CCAGCAGACC CATGGCATCA CCCGGCTGGG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
34051	CCCCTACTCT CTGGACAAAG ACAGCCTCTA CCTTAACGGT GAGCAGCTAT
34101	CAGCCCCATC TCCCTGCCCC ACCCCCCAGC CCCCACTGCA GTCCAGGAGG
34151	GTGTCTGTTT GCCGGTTCTC TAGGGAAAGA CTTGGGGTTC AAGTCTTGGC
34201	ATTACCACTG GCCCTCCCAT AACCACAATG CAAGGTTGGA CTTTGATTAA
34251	TCCCATTTTA CAGATGAAGA AACTGAGGCT TAGACAGGCT AAGCAATTTA
34301	CCTTGACAGT GGTGGAACCA GGATATGAAC TCCACTTGTC AGCATTCGGT
34351	GCTATGATCC ACTCCACATG TTTAACTCAC AGAAGAGTCT TCCTGGTGGG
34401	GGCACTTGGG GGACAAAAAA CACATTTCCG GCTGTGAGCA GTGGCTCACA
34451	CCTGTAATCC CAGCACTTTG GGAGGCCAAG GCGGGCGGAT CACAAGGTCA
34501	AGAGATTGAG ACCACCCTGG ACAACATAGT GAAACCCTGT CTCTACTAAA
34551	AATACAAAAA TTAGCTGGGT GTGGTGGCGC ACGCCTGTAG TCCCACCTAC
34601	TCGGGAGGCT GAGGCAGGAG AATCGCTTGA ACTCGGGAGG CAGAGGTTGC
34651	AGTGAGCCAA GATTGCGCCA TTGCACTCCA GTCTGGGTGA CAAGAGTGAA
34701	ACTCTGTCTC AAAAAAAAAA AAAACAATTT CCCCTCCCTG CTTTCTTCTC
34751	ACCATTGACG AGGGATGGGC TTCTCTCCTA CCTGAGGCCC CCTATACCAG
34801	GAAGATCTAT GGGATCTAAT CTTCAGCGCA CACTGGGCCT CAGCATTGGT
34851	CTAGAACTCA GGATAAGATA GCATTTAAGA AGGCATCCCC TAAATGGGGT
34901	TCTGAGAGGC AAAGCATGAC CGTGGAGAAT TGACAAAATA GCTCGCCTTT
34951	CATCCCCTCC ACCGCCAACC CAAGAACAGT GCTTATCATC ATGACCCCAT
35001	GAGGTGGGCA CCCCATATCA CTTATATGAG GTACCTTTAG GTAGGTACCG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

35051 GGATGTGGAG AGACATCCTG GGCTTTCATT ACTCTTATTT TAGCAAAGAG

35101 GGAATCTGAG GCACAGAGAA GGGAAGGGAC TTGCCCATGC CCACAGCGAG

35151 TTTTTGGCTA GTATGGGTCT TGATGTTCTT TCTGGGTCCG TNNNNNNNNN

35201 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

35251 NNNNNNNNNT TCCTGCGTGG GAGATGTGTG GATTTGATTT GTATCTGGAA

35301 AGATGATTTT TTATTGGTGA CAAAGCAGTT AAAGTTAATC TTCACAGTTG

35351 TGCGGAGAGT GACCACGCGA GTTAGTCTTA TCCTTATTTT TTTGATCATC

35401 CCGCTACACA AGACAAAGCG AACCGCACAG GCAACATCAG CAGGCCCCAT

35451 TGGTGTGTTC CCCTCTATGG GTCCATGTGT TCTCATCATT AGCTCCCACG

35501 TATAAAGTGA GAAGATGGCA GTATTGGTTT TCTGTTCCTG CATTAGTTTG

35551 GTAAGGATAA TGACCTCCAG CTCCAACCAT GTTCCTGCAA CGGACATGAT

35601 CTCATTCTTT TTTATAGCTG CATAGTATTC CATGGTGTAT ATGTTCCTCA

35651 TGTTCTTTAT CCAGTCTATC CTTGATGGGC ATTTAAGTAG ATTCCATGTC

35701 TTTGCTATTG TGAATAGTGC TTCAGTGAAC AGGTGTCTTT ATGATAGAAA

35751 AATTTATATG CCTTTGGGCA TATATGCAGT GATGAGATTG CTGGGTCAGA

35801 CGGTAGTTCT GTTTTTAGCT CTTTGAGGAA TCATCCTGCT GCTTTCTACA

35851 GTGGATGAAC TAATTTACAC TCCCACCAAC AGTGTATAAA CACTCCTTTT

35901 TATCTGCAAC CTCAGCAGCA TGGTTTTATT TCTCTTTATG GCTGAATAGT

35951 GTTCCATTGT GCATATATAC CACACTTTCT TTATGGATTC ATCTGCTGAT

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

36001 GGACATATAG GTTGATTCCA CATCTCTGCT ATTGTGAATA GTGCTGTGAT

36051 AAACACACAG GTGCGGGTTG GGTCTTGATG ATCTCAGTTA ACATCCAGTC

36101 CCTTCAACTT GGCTATTGCA GGGAGCTGTT CCCCCTTGTA AACTGCACAG

36151 CTTATGTGCT TCATTTTGTT CCTTCATTTA GATTTACCAA GCAGCTACTA

36201 TTAACCAGGC CACAATGTGC CTCGCCCCCA GGAACAGAGA TAGGTTACAT

36251 GTGCATCCTG TCCTAATGTA ATCTCCAGGG GGGCGGAGAC TGTTTTGTTC

36301 TACCCTATAT TCCCCAAATG TAAAGGGAGC CTTGCACATA CTAAGCCCTT

36351 AATAAACATT CATTGGGTGG AGGAATAGAT TGGAGGAGGC CTGGAAGGGG

36401 AGGCGGGGGT TATGGATGGA TAGGAGGATA GACTTGTGAA CACAAAGGTA

36451 GTGAGAGCCT CTCATTGGAG GCATGCTGGA GACGTGAGTA GGGAAGGGTC

36501 AGTGCTAATT GAAATATCAG GAAATTCTTT CTAGTGGTGA ACACATTTAA

36551 GTCAAATATT AGATGATACA TAAATGTATC CATAATCTCT AGATACACAA

36601 AGGGAAAGGC ATCCAGGCAG GGGCCCCATA TGGACAAAGG CATGGAGTAT

36651 CTGGGACGGT TCCACCACCT CCTCTTACGT GTGACTTCTT TGTTTCAAGG

Exon R4

36701 TTACAATGAA CCTGGTCTAG ATGAGCCTCC TACAAGTACG TGTCTTTGAA

36751 TCTAGTGCCC ATTTCAATCT CCATGGGTCT TGGTTCAAGC TTTTCTCCTC

36801 ATTCATGAAG GAAGGTTGCC CCAAATTCGG GCTGGTCCCC TAGGTGGTGA

36851 GGGGCATTGT CTCAGTGGGA GGAAGAATGC TGAGTCCTTG GCCCTGTTTT

36901 TAGACCTGCA GCCATAGTCT TGGCTTTGTG AATTTTCCAT GTCCCTCTGG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
36951	GTTGGAGGAA GAAGTTTGAA CAAGCATTCC CTACACGGGA TAGAGGTTGA
37001	GGTCAGATGA TGACCTCTGT TAGTCTGTAC CCTCCTTGAT AAGAAAATCT
37051	CCTCCAAGTG CCCCAGCAGA GGCTTCATGG TCAAGCTGCA GACTCTGCTG
37101	GCTACTGGTT TTGGCTAAAT TTGCCCATTG CCTCATCCAG TGATCCACTC
37151	GTCTATCTTT CCAGCCATCC ATTTTTCTAT CCTTCCAGTC ATCTCTCAGA
37201	CACCACCTGT CCTTCCATCC ATCCATCCGT CCATCCATTT ACCCATCCAT
37251	CCATCCACCC CATTTTCCTG ACCATTTACC TCCTCGTCCT TCCTTCCATC
37301	TGTCCTTTTA TCCATCTATT CATCCATCAC CCATCCTCCT GCCCATTCAC
37351	CTGCTTGTCC CTCCTTTCTT CTGTCCTTCT ATACATCCAT CCATCCATCC
37401	ATCCATCCAT CCACCCATCC ACTCATCCAC CACCCACCCA TCCTTCTGCC
37451	CACTCACTCG CTAGCCCCTC CTTCCTTCTG TCCTTCCATC CATCCATCCA
37501	CCCATCTTCC TGCCCATTCA CCTGCTTGTC CTTCCTTCTA TCTGTCTTTT
37551	ATCCATCTCT CCATCCATTC TCACCATCCA TCCATCCATC CTTCTCCCTA
37601	TTCACTGGTT TGTCTTTCCT TCTGTCCTTC CAACCATCCA CCCATCTCTC
37651	CATTCATTCT CCTCTTCATT CACCATGTTT CCTTATTTCT GTCTCTTCCA
37701	TCCATCCATC TATCCAGACA GACATCTCCT CCCCCCATTC TCCTCCCCAT
37751	TCACTCAATT GTCCTTCCTT CCATCTGTCC TTTTATCCAT CCATCCACCC
37801	ATCCATCCAT CCATCTATCC TTCTCCCCAT TCACCTGTTT GTCCTTCTTT
37851	CTGTCCTTCC AACCATCCAT CCATCCATCA TCCATCCATC TATCCTTTTC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

37901 CCCATTCACC TGTTTTGTCC TTCCTTCTGT CCTTCCAACA TCCCTCCATC

37951 TCTCCATCCA TCCTCCTGCC TATTCATCTG CTTGTCTTTC CTTCCTTCTG

38001 TCCTTCCATC CATTCATCCA TCTGCCCATC CACCCACTCA TCCTCTTGCC

38051 CATTCACCTG CTTGTCCTTC CTTCCACCTG TCCTTTTATC CATCCATCCA

38101 TCCATCCATC TTGCTCACTC CTCCACTCAC ACAATCACTC CTTCCCTCAG

38151 TCTCATTTAT GGCCCACCTG TGAATGGTTG TCCTGGCTTG GACCACTGAT

38201 GAAGCCCAGG GGAGCTTCTC CCACTAGTGG TGGGCTTTTG TCCTCTCTGA

Exon R5

38251 TGGACTGTTC CTTCCACAGC TCCCAAGCCA GCCACCACAT TCCTGCCTCC

38301 TCTGTCAGAA GCCACAACAG GTATTTGGGG CCATTTTTCC TCCTCGAAGA

38351 TTAGAATAGC ATTTCAATCA GACACCTGCC CTCGTGGAGT CCCAGATTTT

38401 ATGAAATAAA TAGACCATCA TAATGTCAGA TGTTTTGGGG TGAGATACCT

38451 GGCATAGTTG GGAAGGAGGA GGGCTTTCTG GAGAAAGTTT CACCTGAACT

38501 GAGTCTTTAA GGATGACTAA GAGTGATTCA GGCAAATAGG GCATGAATAG

38551 TATAACTGAA AGAGGGGAAT CTGTGAGCAA AGCCTCAGTG GCCAGAAACA

38601 GCATAGAGTA TAGGGAGAAG TGAGAGAAAT TTGGTTTGCA TGAAACATAA

38651 AGCTTAACCC AGAGTGGATG GATAAGTGAG ACTGAAAGGT CAGCAGGAGC

38701 CAGATTGGGA AGGGCCTTGA ATGCCAAGTC AAGAAATTTG AACTTAACAC

38751 TGAAGGCCAT AGGGAGCTGT GGATGGTACT AGAGCAGGGG CAGCCATAGT

38801 GAGATTGTCA TTTCAGAAAG ATTCTTCTTG TGTTCAGTAT AGAGAATGTC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

38851 CTTTAGACAG GGCATCCAGT GAGTCTGCCA GGTGCTAATC AGGGTGAGAG

38901 AAAATAAGAC CTGAACTGGG ATAGGGGGAG GAGAGAGAGG ATATATGTGA

38951 TGAATATTCA GTAAAGAGAA TTGGTGTTAC TTGGAGGGGA GAAGACACAT

39001 AGCTTCTGAC TTGCGATGGC CACACTCAGT TTAATAATGA GCGCAGTCTG

39051 ATCTAGTCTC AGACCAGCCC TCAGTTGCAG ACGTCTCTCC TCCCCTCCTG

Exon R1

39101 CAGCATGGGG TACCACCTGA AGACCCTCAC ACTCAACTTC ACCATCTCCA

39151 ATCTCCAGTA TTCACCAGAT ATGGGCAAGG GCTCAGCTAC ATTCAACTCC

39201 ACCGAGGGGG TCCTTCAGCA CCTGGTGAGA CCCTGGTCCC AGCAGCTCCT

39251 GGTGGGATAA ATCCTACCCC CAACCTCTGT TCCTCGGCTT ACCCTCTTCC

Exon R2

39301 TCCTTCCTCT CAAGCTCAGA CCCTTGTTCC AGAAGAGCAG CATGGGCCCC

39351 TTCTACTTGG GTTGCCAACT GATCTCCCTC AGGTGAGACC ACTTCCTGGC

39401 CATTTGCCAG TAACAACCAC CCCTTTTGTG ACCACCCCTT CCTCAGCTTT

39451 CCCCTGCTCC TCCCTCCACT GCTCTTTACC TGCAGAGGTC TCGGGACCTC

Exon R3

39501 TCTAGAGTCC TCAAATGCCT CTCTCCCCAG GCCTGAGAAG GATGGGGCAG

39551 CCACTGGTGT GGACACCACC TGCACCTACC ACCCTGACCC TGTGGGCCCC

39601 GGGCTGGACA TACAGCAGCT TTACTGGGAG CTGAGTCAGC TGACCCATGG

39651 TGTCACCCAA CTGGGCTTCT ATGTCCTGGA CAGGGATAGC CTCTTCATCA

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)	
39701	ATGGTGAGTG TCAGGCTGAA CTTGGATTTA CAGTGACTTT TGGGGAGTTG
39751	GTTTCTTTGT TTTTGAGATG GAGTCTCACT CTATCACCCA GGCTGGAGTG
39801	CAATGGTGCA ATCTTGGCTC TGCAACAGTG ATTCTCCTGC CTCAGCCTCC
39851	CAAGTAGCTG GGATTTACAG GTGCATGCCA CCACGCTCAG CTAATTTTTG
39901	TATTTTTAGT AGAGATGGGG TTTCACCATG TTGCCCAGGC TGGTCTCGAA
39951	CTCCTGACCT CAGGTGATCC ACCTGCCTTG GCCTCCCAAA GTGCCAGGAT
40001	TACAGGCATG AGCCACCATG CCCGGCCCAC CATGACTATT ATTTGTCCCT
40051	GTTGTATGCC CTTTCCTCTC TAAAAAAAAT AGCCCAAGGC CTGGCTGGGG
40101	GACACCCTTC CCCAAACCAC CAAGGGGAGG GTCTTTCCCA TTATTTTGAG
40151	TAAATAGCAT GAAATTCTTT GACCAAATTA ATGTCATAAA TTGTTTGTCT
40201	CTTTCTCCTT CACTTTTGTT TCCAACTTGG TTGCGGTATA ACTATCAAAT
40251	ACAATTGTAT GTATTTAAGA TGTATAATGC AGTGATTTAA TATATGTGTA
40301	GCTTATGAAA TGATTACCAT GATCAAATTA GTTAACACTG CTTTCATGTC
40351	ACATAGTTAC CGTGTGTCTG TGTGCGTCTG TGTGAGTTAG AGAGAAAGAG
40401	AACATTTAAG GTCTACCCTC ATAGAAAATT TCAGGTTTAC AATACAGTAT
40451	TATTAACTAT AATCATCAAG CTTTATACTC GATCCCCAGA ACTTATTCAT
40501	CTTGTAACTA AAAGTTTGTA TTTTGTGACC AACATCTCCC CATTTTCTCT
40551	ATCACCACCC CCATGCCCCC AGCCCCTGAT AACCATCATG CTACTCTCTG
40601	CTTCTGTAAG TTTGACTTCT GATCCCACAT ATAAGTGAGA TCATGCAGTA
40651	TTTGTTTCTC TCTATCTGGT ATATTTCACT TAGCATAATG AACCCCCCCC

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

40701 AGGTACATCC ATAATGAATT TCAATTCAAA ACCCAAGTGG CTGAGTCGTG

40751 GCATCCTTTG GGACAGGATA GCAGGTCCCT TCTATATAAG GATCCTCTGT

40801 GTCAGTGGTT ATTACCAGGG GACAATTCTG CACTTCTGCC CCACCCCACC

40851 CCCCAACTGG GAGACTCTAG GCAATATCCG AAATCATTTT TGGGTATCAC

40901 AACTCAGGGA GGGAAGGAGG GTGCAACTGG CACCTAGTGG GTCGGTAGCC

40951 CATTTTCCAG TGCACAGGAG ACAACCACCC CAGGGAATGA TCCAGCCCCA

41001 AATGCCAATA ATTTCAAGGG TGAGAAATCC TGTTGTACAT GGTCTCAAAG

41051 TTCTTAGGTG GGCACAAGGC TGACATTTAT CACACTTTAC TGTAATTACT

41101 TGTTAAATTT ATCTGATTCC CCCTTACCCT GTGAACTCAA CAAAATTACG

41151 GTCTATTATG AGTGCCACTG TACCCTCGGT TCGCAGTACA TCAGCACATC

41201 ATAGTATGGA AAGAATCATT GAATGAGTGA GCAAATTAAA GATTTGTGTC

41251 TCTGCTGTAA CTCACATTCA TTAATTCATT CATTCAGCAA ACATATATGG

41301 GTGGCTGTTC TGCCCCAAGC CTTGTACTGG GTCTGGAGAT AGAAGACACA

41351 TTTTTCTGTC TCTGAAAAAC TCATACTCAA GTTAACAACA AATTACGGGC

41401 ACAACAAAGA CCCCACTGCT GTTATTAACA GGGTACTATG GGAGCTGAGA

41451 GGAGGAGTAA ATTAAGGAGG GCTTCCTGGA GGAGGGTGTT ATATACCCGG

41501 CCCTGTGCCG GGACACATAA TGATAAGACA GACTTGGGCC TCTGCTGTCC

41551 TGGAGCTCCC TCTCACTGGG CTCTTGAAGC GTGAGCAGGA GTTTTGCAGG

41601 AAATGAAAAG GATGCATTCC TAGAAGTGGG AACTGCATAG CACATGCAGG

Table 2 (continued)

Genomic Repeats (SEQ ID NO: 2)

41651 AAAGCTCAGC TCAGAAGAAT CTGTGTAATA TTCCATTTTT CCCTCTCTTT

41701 GGGGCAACTT TCTGTCTAAG AGCTCCTGCA ATGCCCAGCG TGTGGACCTG

41751 AAATTGATTC TGACAGTAGG CAGGGGACTG CTGGGCAACT TTGGCTCTGC

41801 ATTTTGTGAT CAACATTTCC CCACCATATG TTGCCTTTTC TTCTTCTCTG

Exon R4

41851 TGGCTCCAGG CTATGCACCC CAGAATTTAT CAATCCGGGG CGAGTACCAG

41901 ATAAATTTCC ACATTGTCAA CTGGAACCTC AGTAATCCAG ACCCCACATC

41951 CTCAGAGTAC ATCACCCTGC TGAGGGACAT CCAGGACAAG GTGGGGCATC

42001 TCTCACCCCT CCCGTCTTCT CTGTCCTGTG TGCTTCTCTC CCTCTTCTAC

42051 CTGATTTCTC TGTTAAGTGA TCACTTTAAA TGCTTCACTT CACTATGTAT

42101 TCTGGGTTCT CTCTCAGTTT CCAAAAGTAC TCTCTTGACT ACCATTCCCA

42151 TTTCACAGAT GGGCAAACTG AGGCTCAGAA AGGGGCGTGG TGTGCCTAGG

42201 GTCATACAGT GCTTTAGGAA CAGAGTTAGG ATTTGAACTC TGGTCCCCTT

42251 TGCTCCAAGT CCTGTGTTTT TTTCCACTGG CATCAGCGGC CCCTCCACCC

42301 CCAAGAGGCC TCCATCTCAC CCACTCTCCC TACCCATCTT TCTAGGTC

Table 3

Genomic Carboxy Terminal
(SEQ ID NO: 3)

Exon C1

```
   1  ACCACACTCT ACAAAGGCAG TCAACTACAT GACACATTCC GCTTCTGCCT
  51  GGTCACCAAC TTGACGTAAG TTCTGAAGGT CATAAGCAGT GACCAAGCTT
 101  GTGGCTGTGT CTCTGAGCAC CCTTGAGCTA GACGTCCCCA GTGGGGTACC
 151  CATTCTCCCC TACATCCCTG TCTAGCTAAT CCTACCATCT CCTCCCATAA
 201  ATCCTCAAGG TAGGGAGTGA GGATTAACCT CATGGGGCCA CCAACTCCCA
 251  GCATACACCT TCTTTTTTTT CTGGACACTT GGGAAAATAT AACTTTTTGA
 301  TGTAGAACTC AAAATATTAG CCCAATAATA ATATTTAACA TCAACCAGCC
 351  TCCTCTCATT TAATTCTCAC AACAGAATCT ATGAGTTGAG TGCAAAAATC
 401  ATCCCTATTG TGCAGATGGG AAAACTGAGG GTCAGAAAAG TGAACTTCCC
 451  AAGAACTGTC AAAGTTGGGA TTTGAACCCA GGTCTCTGAT GACTGGATGA
 501  AGGAATGAAG ATACCTATAC TTGGGAATGA GGAGGGTCGA CAGGACACGA
 551  GGGCTGACTT TGTATATTTC TAAACTTCAA AGATTTTCTG TATTTCAGCT
 601  GGGAATATGG TAGAAGGTTA ATTGGAACAA AAAAATGCAA AGCAATGAAT
 651  AAGACCTCAG TATTTGCTAT GCACAACAGG GTGACTGTAG TCCCACAAAT
 701  AACTTCACTG TACATTGTTA AAATATAACT AAAGGTGTAT GCTTGGATTG
 751  TTTGCAACAC AAAGGATATA TGCTTGAGGG GATGGATACC CCATTTACCC
 801  TGATGATTAT TATGCATTAC ATGCTTGTAT CAAAACATCT CATATACCCC
 851  ATAAATATAA AAACACCTAC TATGTACCCC AAAAAATTAA AAACAAATAA
1051  AGGCATGGTG GCACACACCT GTAGTCCCAG CCACTCAGGA AGCTGAGGTG
1101  GGAGGATCGC CTGAGCCTAG GAGGCTGTAC TCCAGCCTGG GTGACAGAGC
1151  GAGACTCTAT CTCAAAAAAT AAAATAAAAT AATAAAAAGT AGAAATCAAG
1201  AGGGAAAATG TGGGAGAAAT TGGGATAATT TTAACAATAC CTTCCACCAG
1251  AGTGATGATG AAGAATGCAT AAGTCACTTC TTAGTGGTCT TGATCTATAA
1301  AAAGTGTTCA ATAAATATCG ATTATTGTTA CTGTTATTGC TTCTAGACGT
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Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

1351 AATTCCTGGA AGCATTTTTT TTTTTTTTTT TTTTGAGATG GAGTCATGCT

1401 CTGTTGCTCA GGCTGGAGTG CAGTGGTATG ATCTCGGCTC ACTACAACTG

1451 CCTCCTGGGT TCAAGCAATT CTCCTGCCTC AGCCCCCCAT GTAGCAGGGA

1501 CTACAGGCAT GCGCCACCAC ACCCGGTGAA GTTTTGTATT TTTATTAGAG

1551 ACAGGGTTTT GCCATGTTGG TCAGGCTGGT CTCGAACTCC TGACCTCAGG

1601 CAATTTGCCT GCCTCGGCCT CCCAAAGTGC TGAGATTACA GGCTTGGGCC

1651 ACTGCATCCA GCCGAAGGCC TCCCATTTTG ATCAGAACCC TTCTCTAGAC

1701 TGAGGGTGGG TGCCTCTAGA TCTTTTGCTC TTTAAAGACA GCAACCGATG

1751 ACCCTGCTGA TGCTGAGTAC TGGCTGAATT CCTGTGGTCT CTGTCCCTAG

Exon C2

1801 GATGGACTCC GTGTTGGTCA CTGTCAAGGC ATTGTTCTCC TCCAATTTGG

1851 ACCCCAGCCT GGTGGAGCAA GTCTTTCTAG ATAAGACCCT GAATGCCTCA

1901 TTCCATTGGC TGGGCTCCAC CTACCAGTTG GTGGACATCC ATGTGACAGG

1951 TACAAGGTGG GGTGGCTGGT TTCCTAACTG GAAGAGGTGG GGTTATGAGG

2001 AAAGATGGGG CTTCTCGGTA CCAGTGGAAT TGGTGGAGGC TCTAGAGAGG

2051 GAAAGGGAGG CTTTCTGGAG ACCCATGTAG GTGACCTCTG GCAGTAGATC

2101 ATCCAACGAG GCAGGAACAG AACACCAGCC ATTGCATCTA AGAGAATAGC

2151 TATTTTTACA TGTAAAAAGA ATTGTGTTGA ATGAATGAAT CAATAGATCA

2201 TTTATTTTGA ATCAATTTAT TGATTCATTC ATTTAATTAA TGAATAATAA

2251 ATGATTCAGT ACATAATTGA TTAATTGATG TAATTGAGAA TTGATTTAAT

2301 TGATTAATTG ATCAATTAAA ATGATCAATT AAATGAATGA ATCAGTAAAT

2351 GAATAATTCA TTCATTCAAT AAACAATGGA AGTAGGCCGG GCATGGTGGC

2401 TCACGCCTGT AATACCAGTA CTTTGGGAGG CCCAGGCAGG CAGATCACGA

2451 GGTCAGGAGA TTGAGACCAT CCTGGCTAAC ACGGTGAAAC CCTGTCTCTA

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

2501 CTAAAAATAC AAAAAAAATT AGCCAGGCAT GGTGGTGGCC ACCTGTAGTC

2551 GCAGCTACTC GGGAGGCTGA GGCAGGAGAA TGGCGTGAAC CCGGGAGGCA

2601 GAGCTTGCAG TGAGCCGAGA TCGCGCCACT GCACTCCAGC CTGGGCGACA

2651 GATGGAGACT CTGTCTCAAA AATAAATAAA TAAATAAAAA TAAAAAATAA

2701 ATAAACAATG GAAGTAAACA CGTACTGATA ACACAGTGTG ATCATTGCTA

2751 TGATAAGGGA ATTTCAGGGG CCTGTGGGAG CCCCAAGGAG GAACACACAA

2801 CCTTGTCTTG GAAAGTTTTA TGTAGGAAGG GGTGAAGAAG CTGAGATCTG

2851 ACAGAGAATG GGACCTAGCC AGGGGTAATA GATGGAGAAT TGTGCTCCAT

2901 GCATCTATAA CCTAGAAGAT AGAAAGAATA TGGCATCTGG CCGGGTGCGG

2951 TGGCTCACGC CTGTAGTCCC AGCACTTTCA GAGGCTGAGA TGGGTGGATC

3001 ACCTGAGGTC AGGAGTTCAA GACCAGCCTG ACCAATATGA TGAAACCCCA

3051 TCTCTGCTAA AAATACAAAA ATTAGCCAGG CATGGTGGTG CGTGCCTGTA

3101 ATCCCAGCCA CTTGGGAGGC TGAGAGAGGA GAACTGCTTG AACTCGGGAG

3151 GCGGAGGTTG CAGTGAGCCG AGATTGTGCC ATTGCACTCA AGCCTGGGCA

3201 AAAAGAGCAA AACTGCATTT CAAAAAAAAA AAAAGTGGCA TTTTGGGGCA

3251 AGTTTAAGAA GATTGGTGTA GCTGGAGCAT CCACTTTGAT ACTGGAGAGG

3301 TGACAGTTGA AGCCAAAGAT GTGGGCAGAG ACTTTGTTGG GCACTGGAAT

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

3351 GGCTTGGGGA GGAACATGAC ACACTCATGA GTTCTGCTTT AGAAAGAAAA

3401 TGAAATGAAT TCTGCTCATC CTCTGGGTGC TGTGTGCAGA ATGGAGGGTG

3451 GGGGGAGAGA AGAGCAAAGG CAAGAAGACC CTTTAGGAAC AATGATCATT

3501 AGTTAGAAGA CTCTGGGTTT CTCAGCACCT GCAATTGCTG ACTACACCCC

3551 CAGAGAAACC CAGTCTCTTT TCCCCCATGT TGTAGAGAAT TCTTACAATG

3601 CTTGGTAGAA AGAGAATTGA ACAGGTAGAT GGGTGGATGG ATACAAGCTG

3651 GACAGATGGA TGGAGGAAGA TCCTCCATCC AATATAGAGC TGTTACCTAA

3701 AACCCTCCAT CCCACCTTTA AAATCCTAGC TCAGCCAGGC GCGGTGGCTC

3751 ACACCTGTAA TCCCAGCACT TTGGGAGGCC AAGGCGGGTG GATCACTTGA

3801 GGTCGGGGGT TCGAGACCAG TCTGACCAAC ATGGTGAAAC CCCCTTCTCC

3851 ACTAAAAATA CAAAAAAAAA AAAAAGTTAG CCAGGCAGGG TGGCGCATGC

3901 CTGTAATCCC GCTACTCGGG AGGCTGAGGC AGGAGAATGG CTTGCACCCA

3951 GGAGGTGGAG GTTGTGGTGA GCCAAGATCA CGCCATTACA CTCCAGCCTG

4001 GGCAAAGAGA GTGAAACTGT CTCAAAAAAC AAAACAAATG ACCCCCCTGC

4051 CAAAAAAAAA AAAAAAAAAA AAGAAAAGAA AAAAAGAAAA GCCTAGCTCA

4101 GCTCACACTG TCAGGAATAA GTAAGCTAGC TGGAATCATC TCTTTCTTAA

Exon C3

4151 AACCCTGCCT TGATAGTGGA TTTTTACATA CTTTTTTTTT AATTCTAGAA

4201 ATGGAGTCAT CAGTTTATCA ACCAACAAGC AGCTCCAGCA CCCAGCACTT

4251 CTACCTGAAT TTCACCATCA CCAACCTACC ATATTCCCAG GACAAAGCCC

4301 AGCCAGGCAC CACCAATTAC CAGAGGAACA AAAGGAATAT TGAGGATGCG

4351 GTGAGAAGGG GGTGGTATGT CCACTCTGTT GCCATGCAGA AACTGACTTA

4401 TGCATACTGG GTAGCCACAG GGTGACTTTT TATAACAATC CACAAAGACA

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

4451 GGTTCTTATT CCCATTTAAT ACACAAGCAC AGAGAGGTTC AGTAGCTGAC

4501 CCAAGGTCAC ACAGCTAAGT CATACCCTAG AAGAGCATGT CCTTTGATAT

4551 ACATACCTGG GCAAGTGGTT GTCATGACAA GAAGCAAAAT AGACGGAGAA

4601 GTGTGCTCAG TGGCTGAAAA TTCTCTGATG CTACTGGGGC CAGGATTCTG

Exon C4

4651 ACCTAAGAAA CATCGCCCTG TCTTTCAGCT CAACCAACTC TTCCGAAACA

4701 GCAGCATCAA GAGTTATTTT TCTGACTGTC AAGTTTCAAC ATTCAGGTAA

4751 GTTCTAACTC AGGACCTAAT GACTCTAGGA ACTTCTGCTG TCCTTTAAAT

4801 AGAAGTGTCC CCAAGCCATA GCTTTGATGG AAGAGAGCCC TAGAAATAGA

4851 GAGCTGTTAA CTAAAAACTA GCTTTTTCCT AAAGCTGGAG CCCAACTGGC

4901 TTCAACACTC AAGAGAGCTG GTGTAAATCT CAGCAGACAT AAAGGTACCT

4951 GGTGCTGAGG CCATGGAGTC TAGAGTGTAG AATCTACTAC ATTAAGACAT

5001 CAGCTACTGA AATCAGGACC CATGGAAGAC GGGGGAAGGA GGGGACTAAA

5051 ACCAGATTAC TTAGAATCTA GCAGCCTAAC TGTGCTTTTC AATGAGAGGT

5101 ATCATTTCCA ATGGTGGGGG GTACCAATGA TTTTTTTTTT TTGACAACTG

5151 CCTTGAGAAC AGGCTTTCCT CACTAAACAA ATTCTGAATC AGAACAAATA

5201 AAGATAAGCC CTGAGAATAG GGCTTTTTCA AGGAGCTGCC AAACAGATCA

5251 AATAGTGACT ATGTTCTGCA GATTGATGTC TGGAGAACTC TACAGCTATT

5301 TTGACTGCTA GGCAGCTGGT TTTCACAGAT ATCATGATTC TGAGGCTGCC

5351 AGTTTTCAAA GTTACCGAGG ATCTTGCTGG ATGCAGTGGC TTGCGACTGT

5401 AATCCCAGCC CTTTGGGAGG CCAAGGTGGG TAGATCGCTT GAGCTCAGGA

5451 GTTTGAGACC AGCCTGGGCA ATATGGTGAA AACCCATCTC TACAAAAAAT

5501 ACAAAAATCA GCTGAGCATA GTGGCATGTG CTGTAGTCCC AGTTACTTAG

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)	
5551	GAGGCTGAGG TGGGAGGATG GCTTGAGCCC AGGAGGCAGA GGTTGCAGTG
5601	AGCTGACATT GTGCCATGCA CTCTAGCCTG GGCAACAGAG CCAAAGCCTG
5651	TCTCAAAAAA AAAAAAACAA ATAATAATAA TAATAAAATA CTGAGGATCT
5701	TGAAAGAGCA CTGTGGAAAT AATGCAAGTT AAAATGCCAC AAAGCTTGCT
5751	CTTTTTACTG AGATTTAACA CTTTCCTTAA CTAAACACCC CTCGAATTTT
5801	TGCAAGCCTT TGGTTCACTT CTAGACTTCT GGAAAAATTG ATTTGGACTA
5851	TTTTGGCCAA TGTTCTCATT GATTTTATGG GTATTCAGAA GTTGTTACCC
5901	CAACATTCCA GAAATGTTCT CCCTGTGGCT ATTACTTTAT TTATTTATTT
5951	ATTTATTTAT TTATTTATTT ATTTGAGACG GAGTCTCCCT CTGTTGCCCA
6001	GGCTGGAGTG CAGTGGCGCA ATCTCAGCTC ACTGCAACCT CCGCTTCCCA
6051	GGTTCAAGCG ATTCTCCTGC CTCAGCCTCC CAAGTAGCTG GGATTATGGA
6101	TGTGCACCAC CACACCGGCT AATTTTTGTG TTTTTAGTAG AGATGGGGTT
6151	TCACTGTGTT GGCCAGGCTG GTCTCGAACT CCTGATCTCA AGTGATCCAC
6201	CCGCCTTGGC CTCCCAAAGT GCTGGGATAA CAGGCATGAG CCACTGTGCC
6251	TGACCTCCCT GTGGCTATTT TTAAATGAAT TAAGTGGAAT AAAATTAGAA
6301	ATTCAGTTCT TCTCCCACGC TAGCTGCATT TTAAGCATTT AATAACAACA
6351	TGAAGCTACT AATGGCTGCA TTGTGTAGTG CAGATGTAGA ATTTTTTTTT
6401	TGTTTTTTGT TTTGTTTTTG AGATGGAGTC TCGCTCTGTC ACCAGGCTAG
6451	AGTGCAGTGG CGTGATCTCG TCTCACTGCA ATCTCTACTC CCCGATTCAA
6501	GTGATTCTCC TGCCTCAGCC TCCCAAGTAG CTGGGATTAC AGGCACGTGC
6551	CACCACACCC AGCTAATATT TGTATGGATG GTCTCAATCT CCTGACCTCG
6601	TGATTTGTAT GGATGGTCTC GATCTGACCT CATGATCCGC CTGCCTGGGC
6651	CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CCACTGTGCC CGGCCGACAT
6701	AGAATGTTTA CATCATTGCA GAAAGTTTCT GCAGGAAGAG CCTAGAAGGA

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

6751 GAAAGCCTAG AATCATGATA AAATTGCAGA TATCTTTGCT TATCCCTGTC

Exon C5

6801 CCCTTCCAGG TCTGTCCCCA ACAGGCACCA CACCGGGGTG GACTCCCTGT

6851 GTAACTTCTC GCCACTGGCT CGGAGAGTAG ACAGAGTTGC CATCTATGAG

6901 GAATTTCTGC GGATGACCCG GAATGGTACC CAGCTGCAGA ACTTCACCCT

6951 GGACAGGAGC AGTGTCCTTG TGGATGGTAA AGCTCCCTGG GTCATTGGGA

7001 CTGAGGTGGA AGCTCCCACT TCCTCACCTG GGTCCTTCCC TGGGAATCTG

7051 AAGGCTTGGG GTTGATTCGT CATCGAGCTT TCTCAGACTG GGAGAAAGTG

7101 GCTTAGTTCT CCTAAGCTTT ACCCATCATT GAAGGAAAGA AAAGGACGCC

7151 CGAGGGATAT GGGAGGCATT TGCCCTCTTC TGGCCAGCTC TGTGACCTCA

7201 GGCTAGTCAC ATCTCCTTTC TGGACTTCTT ATCTCTCTGT ACTTAGCAAG

7251 CCACTTGGTT TTTGGTTCCC ATCTTGCCTG CCCTAGATGG TATTGCTCCT

7301 CCACCCCCAG GCAGCTGCAG TGTTAAACAA TTACCCTGAT TAGTTATTGT

7351 TGTTGTGTTG TTTGTTTGTT TTTGAGACAG GGTCTCACTC TGTCACCTAG

7401 GCTGGAGTGC AGTGACATGA TCTCAGCTCA CTGCAACCTC AACCCCTGGA

7451 CTCAAGCAAT CCACCCACTT CAGCCTCCCA AGTAACTGGG ACTACAGCCA

7501 TGCGCCACCA CACCCGGATA ATTTTTGTAT TTTTTCTAGA GATGGGGTTT

7551 TGCAACATTG CCCAGGCTGG TCTTGAACTC CTGAGCTCAA GCATGCCACC

7601 TGCTTCAGCC TCCCAAAGTG CTGGGATTAC AGGCAGGCAG GCACCACTGC

7651 AGCTGGTTCT GGTTTTTTGT GTTTGTTTTT TTCTTTTAGA GGCAGGGTCT

7701 CGCTCTGTTA ACCAGAATGG AGTACAGTGG TGCAATCATA GCTCACTGCA

7751 GTCTTGAACT CCTGGGCTCA AGCGATCCTC CCACCTCAGC CTCCTGAGTA

7801 CCTGGAACTA CAGGCACGTG TCACCACGCC TTGCTAATTT CTAAATTTTT

7851 TGTAGAGACA GGGTCTCACT ATGTTGCCCA GACTGGTCTC TAATTCCTGG

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)				
7901	CCACAAGTGA	TCCTCCTGCC	TCAGCAGGTC	AATGAGGGCT	TCCAGTTTCA
7951	AGTTGTATGT	GATTCATCCT	CAACAAATGT	GGTAGGATGG	ACCTATTTTC
8001	CAACTCCAGA	GATGGCTTCA	AGGTGGCTCA	ACTTTGCATA	TCCAATTTTA
8051	CCCATTCAAA	GAATAGTTAT	ATACATTGTA	CCATGTATCA	GGAATATAAC
8101	AGAGAGTAAC	TGTTTGCTCT	TTCACCACTA	TATTCCAAGA	ACCCCATATT
8151	CTGCCTGGCA	CATAATAAAC	ACTCAAGTCA	TATTTGCAGA	AGGAATAACT
8201	AGATTTCATA	CAAGGTTCTT	TTCAAGTCAA	ATGCGAATAA	CGTTTTAGAC
8251	GGGACCTTCC	AATGCCTGTG	TGCACTGTCC	TTGATTCCGA	ATTATTGTTG
8301	TGCAAGAGAG	CACTGTTGAT	CCTTCAGAAT	CAACAAGCCT	TTCACATGCC
8351	TGTCACAGGT	TTTTCTTTTT	CTTGTTTTAC	CAATTTTGTT	TGTTGTTTGT
8401	TTGTTGTTAT	TGTTTTGTTT	TGTTTTTGTT	TTTTATTTGT	TTTTATTTTT
8451	TCTTTTTTTT	TGAGACAGAG	TCTCGCTCTG	TCACCCAGGC	TGGAGTGCAG
8501	TGGCACGATC	TCCGCCCACT	GCAAGCTCCG	CCTCCTGGGT	TCATGCCATT
8551	TTCCTGCCTC	AGCCTCCTGA	GTAGCTGGGA	CTACAGGCGC	CTGCCACCAT
8601	GTCTGGCTAA	TTTTTTTTGT	ATTTTTAGTA	GAAACAGGGT	TTCACCATGT
8651	TGACCAGGAT	GGTCTCGATC	TCCTGACCTC	GTGATCTGCC	CACCTGGGCC
8701	TCCCAAAGTG	CTGGGATTAC	AGGCGTGAGC	CACCACACCC	AGCCCCAATT
8751	TTTTTTTTAA	TTAAAATTGT	TGTCAGCTCA	CAAGCTTTCT	AAAAACAGGC
8801	CATGGACCCA	GCATCGCTGT	AGTTTGCCAA	ACCCTTGCCT	TGAATCAGTA
8851	CCATCCAATA	GAACTTTCTG	CAGTGATAGA	AAATGTTTCT	ATCTGTGCTA
8901	TTCAGCACAA	AGCCATGTGT	GATTACTAAG	CTTGAAGTGT	GGTTAATGTA
8951	ACTGAGATAC	CGAAGTTTTA	ATTTTATTTA	ATTTTAATTT	AAAAAGCCAC
9001	TTGTGGCTGC	TCCATATTGC	ACACTACTTT	TTAAAATTAT	TATTTGTATA
9051	TATTTAAGGG	GCACAAGTAC	AATTTTGTTG	CATGGATTTA	TAGCCCAGTG

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

```
 9101  GGGAAGTCTG GGCTTTTAGG GTATCTATTA CCTGAATAAT GTACATTGTA
 9151  CCCATTGAGT AATTTCTCAT CATCCACTCT CCTCCACTCC CCAACCCTTC
 9201  CAAGTTTCCA CTGTCTATTA TTCCACTCTC TATGTCCATG CCTATGCATT
 9251  ATTTAGCATT GACATGTCTA TGCATTATTT AGTCAAATAC ATGTGCTATT
 9301  TGACTTCCTG TATCTGAGTT GTTTGACTTA AGATAATGAC CTTCACTTGC
 9351  ATCCATGTTG CTGCAAAAGA CATGATTTCA TTCTTTTTTA TGCCTGGGTG
 9401  GTATTGCATT GTGTGTGTGT GTGTGTGTGT GTGTGTAGAG AGAGAGAGAG
 9451  ATCACATTTT CTTTATACAG TCCTCCATTG ATGGGCACTT AGGTTGATTC
 9501  CATATCTTTG CTATTGTGAA TAGTTTTGTG ATAAACACAC AGGTTCAGGT
 9551  GTCTTTTTGA CAAAATTATT TATTTTCCTT TGTGTAGATA CCCAGTCGTG
 9601  GGATTCCTGG ATCAAATGGT AGTTTCATTT TTAGTTATTT GAGAAATCTC
 9651  CACGTTTTTC ATAGAGATTA TACTAAATTA CATTCCCACC AACAGTGTGT
 9701  AACGGTTCAC TTTTCTTGCA TCCTTTTTAA CATCTGTTAT TTTTGTCTTT
 9751  TTAGTAACAG CCATTCTGAC TGGCGTAAGG TGGTATCTCA TCATGGTTTT
 9801  AATCTGTATT TCTCTGATTA TTAGTAATGT CGAGCATTTT TTCATATGCT
 9851  TGTTAGCCAT TGGTATGTCT TCTACATCTT TAAGAAGCTG GCTATGGGCT
 9901  GGGCGCAGTG GCTCACACCT GTAATCCCAG CACTTTGGGA GGCCGAGGCA
 9951  GGCGGATCAC GAGGTCAGGA GTTAAAAACC AGCCTGGCCA ACATGGTAAA
10001  ACCCTGCCTC TACTAAAAAT ACAAAAAATT ACCCAGGCAT GGTGGTGCGC
10051  CTGTAATCCC AGCTACTCAG GAAGCTGAGG CAGGAGAATC ACTTGAACCC
10101  AGGAGGCGGA GGTTGCAGTG AGACGAGATC ACATCATTGC ACTCCAGCCT
10151  GGGTGACAGA GTGAGACTCT ATCTTGAGAA AAAAAAAAAG TTGGCTATAA
10201  CAGGGTTGTA GAAGTAGAGG AACCAGTAAC CCTTCTCGCC ATGCCTGATG
10251  ATGGCTTTAC ATCCCTGTCT TCATGGAGTT TATGCTGTCG TGAGGAATAA
```

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

10301 CAAGAACAGG CAGTTGTCAA TTATAAATTA TTTGATGTGA ACCTATTCAT

10351 ACATGGGTGT GGTCATCAGG GAAGGCTTCC TGGAGGAAAT GACATTGAAG

10401 GTGAATTCTA AAAGATGACG ATAAACCACC AAGTGAAGGA GAGCTTAAAT

10451 GTGTTTTTAG GCAGAAGAAA AACCTTTTGG GTGAAAATTT TAAAACTTAG

10501 AGAGGTCCCA TCAGTTTCCA ACTGCGATGA TCCATTCTCT CCACCACTGC

10551 CCTTGGGCCC AGCCCAATTT AGGTCCACCA TGCCCAGAGG CATGAATTTA

10601 ACTTATGACA CTCTTGTGGT GGAATAATGG CTTTGGGCTT ATGTAGCCAT

10651 GTGTCATTTT TTTAGAGATA CAAATTGAAA TATTTGGGGT GAGATGTCAT

10701 GGTGTCTACT GGCCTCTAAA ACTTCAGTGA AAACATTTAC TTTCACTGAA

10751 ATGTCAATAA ATCATAAATT GGATGTATAT GTTTTAGTTG GAGGAAATAT

10801 AAACCACTAA ATCTAGGTGA TGCATATTTA TTATACTCTT CTCTCTGCTT

10851 TTTTGTACGC TTGTAAAATT GTATTTAAAA GAATAAGACA CACTTGGCCG

10901 GGCGCGGTGG CTCACGCCTG TAATCCCAGC ACTTTGGGAG ACCGAGGTGG

10951 GTGGATCATG AGGTCAGGAG TTCAAGACCA GCCTGGCCAA CATGGTAAAA

11001 CTCCATCACT ACATACAAAA ATTAGCCAGG CATTTTGGCG GGCACCTGTA

11051 ATCTCAGCTA CTTGGGAGGC TGAAGCAGGA GAATTGCTTG AACCCGGGAA

11101 GCAGAGGTTG CAGTGAGCCA AGATCACGCC ACTGCACTCT AGCCTGGGCA

11151 ACAGAGCAAG ACTCCATCTC CAGAAAAAAA AAAAAAAAAA GACACACTCA

Exon C6

11201 CATGCACCCT CCATTTCTTT CATTTCTAGG GTATTCTCCC AACAGAAATG

11251 AGCCCTTAAC TGGGAATTCT GGTAAGTCTC AAAGAAGCCC CAGCCCAGGG

11301 TAGGGAGGGG GTAGCCTGAT GGTGCTTTGC CTTGTCCAAG AGCACCAGGC

11351 ACACAGAGTC TTGGATGAGG ATCAAAATTG CCAACCCATG GCAAAGACTA

11401 TTGAGGCATA GTAAAGGGAT AGCAGGGATC CTGGCTTTCT GGGGGCCCAG

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

11451 TTTTTGGGGG CATCAGAGGC ATGAGGTGTT GAGCCACTAA GCTCTCTTCC

11501 CCAGGGGCTG TGCCCATCCT CAGGCCACAT AGGGTCCAAG AAGGAGCCCT

Exon C7

11551 GGGACGTGGC AGGAGGTGGC TCACCCCAGC CCTTGTCTCC CCAGACCTTC

11601 CCTTCTGGGC TGTCATCCTC ATCGGCTTGG CAGGACTCCT GGGAGTCATC

11651 ACATGCCTGA TCTGCGGTGT CCTGGTGAGC AAGGAAGGGT TGCTTGTCTT

11701 CTTAACAATT GGGTTGTAAG AGTTCTTAAT ATATTATAAA ACCATACTAT

11751 ACTATACACA AGTCCTTTGC TGGATATATG TTTTGCAAAT ATTTTCTCCC

11801 AGTTCACGGA GTGGCTTTCC TATTTTCTTT TTATAATTTT ATTTTTAATT

11851 AATTGACAAA TAATGAATGC ATATATTTAG GGGATACAAT GTGATGCTTT

11901 GGTATATGTA CAATTATGGA ATGACTCAAT CAAGCTAATT AATATGTCCC

11951 TCACCTCTCA TACTTATTAT TTCTTTGTGG TGTGAACATT GGCAACCTAT

12001 ACTCTTAGCA ATTTTGAAAT CTACATTATT ATTAACTATA GTTACTATGT

12051 TATGCAGATC TCAAAAACTT CACAACCTAT ATGCTGATTA CAAGATATTG

12101 AGAGAAAAAG TGATTGCAAA GAGTGTAAAT AAAATAATGT AAGAGGGAAA

12151 AATGTAACAA AATTAGTCGT TAGGGAAATG TACACGGAAG TCACAATGAG

12201 AGGCCACTTT TCACAAGAAT GGATAAAATT GAAAAGATTG ACTATAACAA

12251 GTGTTGGTGA AAATGTGACA GAACTGGAAC TCTCATAAAG TGAAAGTGGA

12301 AAATAGCTTG GCCATTTCTT TGAAAATTAC ACACACCTAC CGTAAGACCT

12351 ACCATCCCAC TACTAGTAAT TTATCTAAGA GAAATAAAAA CATATGTCTA

12401 TATGAAGACT TGTACACAAG TAAATGTTCA TAACAGCTTT GTTTGTAATA

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)	
12451	GCCAAACTCT GAAAACAAGC CCCTAATGTC CATTAACAAA TATATCCTGA
12501	CAATGGAATA TTATTCAGCA ACAAAAAGGA ATTATTAATA CATTAATAAA
12551	TTATACAGCA ACATGTATAA ATTGCAAAAT AGTTATGCCT AGTGAAAGAA
12601	TCCAGATGAA GAAAAGAGTA CATGCCATAT GATTCCCTTA ATAGACAAAT
12651	TCTAGAAAAT ACAAACTAAT CTGTAAGGAC AGGAATCAGA TCAGCGGTTG
12701	CCTGGGAATG AAAATGTGTT TGCAGTGGCA GGGAAAAAGG AATTGTAAAA
12751	GAGCAGGAAG AAAGTTTTTT TGTTGTTTTT TTTTTGTTTT TTCTTGAGAC
12801	AGAGTCTTAG TCTATCGCCC AAGCTGGAGT GCAATGGCAC GATCTCAGCT
12851	CATTGCAACC TCTGCCTCTC GGGTTCAAGC GTTTTTCCTG CCCCAGCCTC
12901	CCAAGTAGCT GGGATTACAC ATGCGCACCA CCACACTCAG CTAATTTTTG
12951	TATTTTTAGT AGAGACGGGG TTTTACCATG TTGGCCAGGC TGGTCTCGAA
13001	CTCCTGACCT CAGGTGATCC ACCCGCCTTG GCCTCCCAAA GTGCTGGGAT
13051	TACAGGAGTG AGCCACCATG CCTGGCCAGG ACGAAAGTTT TGGGGATGAT
13101	GGATGGATGT TCCTTATGTT GATTGTGGTG ACGATTCAAT AAGTTATGAT
13151	CAGAACTTAT CAAAACATTC ACTTTAAATG TGTGCAGTTT ATTTTATGTC
13201	AGTTATGCCT CAGTTAAGCT GGACAGATGT AGAGGAGGAA GGGAGGGAGA
13251	GAGGGGGCTG AGATCAGGAC CAAAAGCCAG AGAGAAAGAG ACTGAGAATG
13301	AGATGAGAGA GAAATGGTAT TTAGACAGAA GACAGGCGAT AGATGATTGA
13351	TAGTTGACAG ATGATTGGTG GATANNNNNN NNNNNNNNNN NNNNNNNNNN
13401	NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

Table 3 (continued)

Genomic Carboxy Terminal (SEQ ID NO: 3)

13451 NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

13501 AGGAGGTTTA AACAAAACGC AATTATGTTG AAATGACAAT GATTGTGGAT

13551 ATAAAGGTAG ATAGAAATAG ATATTTGTGA AGATAATGGT TAGATAAAAA

13601 TGATAGGTAA CAGATATTGA TAGATCTTGA TAAGTAGATG ATAAATACAT

13651 GATTGATGGA TGACAGGTGA TTGATAGATG ATTTGATGGA TTATAAATAG

13701 GAGATGATTG AGAGGTGAGA GATAATTGAT GGTTATTTGA TTGGTAGATA

13751 ATTGATTGAC AGGTTGATAA ATATTGATAG CTAGATGATA GATAAATAGA

13801 TCATTGGTAG ATATGTGATA TATTGATAAA GAAATTCAGA GGCAAAAGGA

13851 GAGAGAAATG AAGGGGATAT CGGAGGGGGA AAAATTTTTT TAAACCGAGA

13901 GTGAAACAAG GAGACAGAAG AAAAGAAAGT GGTGAAAAGA GGAAAAGAAC

13951 TGAGGGAGAA ATTAAATGAA ACAATGAAGG GAGACAGAGG AAGCATAAGG

Exon C8

14001 CCTCTGGCTT TGGCCATATT CTCACCCCTG TGGTCTCCTC TCCCTGGACG

14051 GCTGACCAGT CCATTCTCAC GCCTCCTCCT CACCCTCATA GGTGACCACC

14101 CGCCGGCGGA AGAAGGAAGG AGAATACAAC GTCCAGCAAC AGTGCCCAGG

14151 CTACTACCAG TCACACCTAG ACCTGGAGGA TCTGCAATGA CTGGAACTTG

14201 CCGGTGCCTG GGGTGCCTTT CCCCCAGCCA GGGTCCAAAG AAGCTTGGCT

14251 GGGGCAGAAA TAAACCATAT TGGTCGG

Table 4

Human cDNA of CA125
(SEQ ID NO: 4)

```
   1  AAGCGTTGCA CAATTCCCCC AACCTCCATA CATACGGCAG CTCTTCTAGA
  51  CACAGGTTTT CCCAGGTCAA ATGCGGGGAC CCCAGCCATA TCTCCCACCC
 101  TGAGAAATTT TGGAGTTTCA GGGAGCTCAG AAGCTCTGCA GAGGCCACCC
 151  TCTCTGAGGG GATTCTTCTT AGACCTCCAT CCAGAGGCAA ATGTTGACCT
 201  GTCCATGCTG AAACCCTCAG GCCTTCCTGG GTCATCTTCT CCCACCCGCT
 251  CCTTGATGAC AGGGAGCAGG AGCACTAAAG CCACACCAGA AATGGATTCA
 301  GGACTGACAG GAGCCACCTT GTCACCTAAG ACATCTACAG GTGCAATCGT
 351  GGTGACAGAA CATACTCTGC CCTTTACTTC CCCAGATAAG ACCTTGGCCA
 401  GTCCTACATC TTCGGTTGTG GGAAGAACCA CCCAGTCTTT GGGGGTGATG
 451  TCCTCTGCTC TCCCTGAGTC AACCTCTAGA GGAATGACAC ACTCCGAGCA
 501  AAGAACCAGC CCATCGCTGA GTCCCCAGGT CAATGGAACT CCCTCTAGGA
 551  ACTACCCTGC TACAAGCATG GTTTCAGGAT TGAGTTCCCC AAGGACCAGG
 601  ACCAGTTCCA CAGAAGGAAA TTTTACCAAA GAAGCATCTA CATACACACT
 651  CACTGTAGAG ACCACAAGTG GCCCAGTCAC TGAGAAGTAC ACAGTCCCCA
 701  CTGAGACCTC AACAACTGAA GGTGACAGCA CAGAGACCCC CTGGGACACA
 751  AGATATATTC CTGTAAAAAT CACATCTCCA ATGAAAACAT TTGCAGATTC
 801  AACTGCATCC AAGGAAAATG CCCCAGTGTC TATGACTCCA GCTGAGACCA
 851  CAGTTACTGA CTCACATACT CCAGGAAGGA CAAACCCATC ATTTGGGACA
 901  CTTTATTCTT CCTTCCTTGA CCTATCACCT AAAGGGACCC CAAATTCCAG
 951  AGGTGAAACA AGCCTGGAAC TGATTCTATC AACCACTGGA TATCCCTTCT
1001  CCTCTCCTGA ACCTGGCTCT GCAGGACACA GCAGAATAAG TACCAGTGCG
1051  CCTTTGTCAT CATCTGCTTC AGTTCTCGAT AATAAAATAT CAGAGACCAG
1101  CATATTCTCA GGCCAGAGTC TCACCTCCCC TCTGTCTCCT GGGGTGCCCG
1151  AGGCCAGAGC CAGCACAATG CCCAACTCAG CTATCCCTTT TTCCATGACA
1201  CTAAGCAATG CAGAAACAAG TGCCGAAAGG GTCAGAAGCA CAATTTCCTC
```

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

1251	TCTGGGGACT	CCATCAATAT	CCACAAAGCA	GACAGCAGAG	ACTATCCTTA
1301	CCTTCCATGC	CTTCGCTGAG	ACCATGGATA	TACCCAGCAC	CCACATAGCC
1351	AAGACTTTGG	CTTCAGAATG	GTTGGGAAGT	CCAGGTACCC	TTGGTGGCAC
1401	CAGCACTTCA	GCGCTGACAA	CCACATCTCC	ATCTACCACT	TTAGTCTCAG
1451	AGGAGACCAA	CACCCATCAC	TCCACGAGTG	GAAAGGAAAC	AGAAGGAACT
1501	TTGAATACAT	CTATGACTCC	ACTTGAGACC	TCTGCTCCTG	GAGAAGAGTC
1551	CGAAATGACT	GCCACCTTGG	TCCCCACTCT	AGGTTTTACA	ACTCTTGACA
1601	GCAAGATCAG	AAGTCCATCT	CAGGTCTCTT	CATCCCACCC	AACAAGAGAG
1651	CTCAGAACCA	CAGGCAGCAC	CTCTGGGAGG	CAGAGTTCCA	GCACAGCTGC
1701	CCACGGGAGC	TCTGACATCC	TGAGGGCAAC	CACTTCCAGC	ACCTCAAAAG
1751	CATCATCATG	GACCAGTGAA	AGCACAGCTC	AGCAATTTAG	TGAACCCCAG
1801	CACACACAGT	GGGTGGAGAC	AAGTCCTAGC	ATGAAAACAG	AGAGACCCCC
1851	AGCATCAACC	AGTGTGGCAG	CCCCTATCAC	CACTTCTGTT	CCCTCAGTGG
1901	TCTCTGGCTT	CACCACCCTG	AAGACCAGCT	CCACAAAAGG	GATTTGGCTT
1951	GAAGAAACAT	CTGCAGACAC	ACTCATCGGA	GAATCCACAG	CTGGCCCAAC
2001	CACCCATCAG	TTTGCTGTTC	CCACTGGGAT	TTCAATGACA	GGAGGCAGCA
2051	GCACCAGGGG	AAGCCAGGGC	ACAACCCACC	TACTCACCAG	AGCCACAGCA
2101	TCATCTGAGA	CATCCGCAGA	TTTGACTCTG	GCCACGAACG	GTGTCCCAGT
2151	CTCCGTGTCT	CCAGCAGTGA	GCAAGACGGC	TGCTGGCTCA	AGTCCTCCAG
2201	GAGGGACAAA	GCCATCATAT	ACAATGGTTT	CTTCTGTCAT	CCCTGAGACA
2251	TCATCTCTAC	AGTCCTCAGC	TTTCAGGGAA	GGAACCAGCC	TGGGACTGAC
2301	TCCATTAAAC	ACTAGACATC	CCTTCTCTTC	CCCTGAACCA	GACTCTGCAG
2351	GACACACCAA	GATAAGCACC	AGCATTCCTC	TGTTGTCATC	TGCTTCAGTT
2401	CTTGAGGATA	AAGTGTCAGC	GACCAGCACA	TTCTCACACC	ACAAAGCCAC
2451	CTCATCTATT	ACCACAGGGA	CTCCTGAAAT	CTCAACAAAG	ACAAAGCCCA

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
2501	GCTCAGCCGT	TCTTTCCTCC	ATGACCCTAA	GCAATGCAGC AACAAGTCCT
2551	GAAAGAGTCA	GAAATGCAAC	TTCCCCTCTG	ACTCATCCAT CTCCATCAGG
2601	GGAAGAGACA	GCAGGGAGTG	TCCTCACTCT	CAGCACCTCT GCTGAGACTA
2651	CAGACTCACC	TAACATCCAC	CCAACTGGGA	CACTGACTTC AGAATCGTCA
2701	GAGAGTCCTA	GCACTCTCAG	CCTCCCAAGT	GTCTCTGGAG TCAAAACCAC
2751	ATTTTCTTCA	TCTACTCCTT	CCACTCATCT	ATTTACTAGT GGAGAAGAAA
2801	CAGAGGAAAC	TTCGAATCCA	TCTGTGTCTC	AACCTGAGAC TTCTGTTTCC
2851	AGAGTAAGGA	CCACCTTGGC	CAGCACCTCT	GTCCCTACCC CAGTATTCCC
2901	CACCATGGAC	ACCTGGCCTA	CACGTTCAGC	TCAGTTCTCT TCATCCCACC
2951	TAGTGAGTGA	GCTCAGAGCT	ACGAGCAGTA	CCTCAGTTAC AAACTCAACT
3001	GGTTCAGCTC	TTCCTAAAAT	ATCTCACCTC	ACTGGGACGG CAACAATGTC
3051	ACAGACCAAT	AGAGACACGT	TTAATGACTC	TGCTGCACCC CAAAGCACAA
3101	CTTGGCCAGA	GACTAGTCCC	AGATTCAAGA	CAGGGTTACC TTCAGCAACA
3151	ACCACTGTTT	CAACCTCTGC	CACTTCTCTC	TCTGCTACTG TAATGGTCTC
3201	TAAATTCACT	TCTCCAGCAA	CTAGTTCCAT	GGAAGCAACT TCTATCAGGG
3251	AACCATCAAC	AACCATCCTC	ACAACAGAGA	CCACGAATGG CCCAGGCTCT
3301	ATGGCTGTGG	CTTCTACCAA	CATCCCAATT	GGAAAGGGCT ACATTACTGA
3351	AGGAAGATTG	GACACAAGCC	ATCTGCCCAT	TGGAACCACA GCTTCCTCTG
3401	AGACATCTAT	GGATTTTACC	ATGGCCAAAG	AAAGTGTCTC AATGTCAGTA
3451	TCTCCATCTC	AGTCCATGGA	TGCTGCTGGC	TCAAGCACTC CAGGAAGGAC
3501	AAGCCAATTC	GTTGACACAT	TTTCTGATGA	TGTCTATCAT TTAACATCCA
3551	GAGAAATTAC	AATACCTAGA	GATGGAACAA	GCTCAGCTCT GACTCCACAA
3601	ATGACTGCAA	CTCACCCTCC	ATCTCCTGAT	CCTGGCTCTG CTAGAAGCAC
3651	CTGGCTTGGC	ATCTTGTCCT	CATCTCCTTC	TTCTCCTACT CCCAAAGTCA
3701	CAATGAGCTC	CACATTTTCA	ACTCAGAGAG	TCACCACAAG CATGATAATG

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

```
3751  GACACAGTTG AAACTAGTCG GTGGAACATG CCCAACTTAC CTTCCACGAC
3801  TTCCCTGACA CCAAGTAATA TTCCAACAAG TGGTGCCATA GGAAAAAGCA
3851  CCCTGGTTCC CTTGGACACT CCATCTCCAG CCACATCATT GGAGGCATCA
3901  GAAGGGGGAC TTCCAACCCT CAGCACCTAC CCTGAATCAA CAAACACACC
3951  CAGCATCCAC CTCGGAGCAC ACGCTAGTTC AGAAAGTCCA AGCACCATCA
4001  AACTTACCAT GGCTTCAGTA GTAAAACCTG GCTCTTACAC ACCTCTCACC
4051  TTCCCCTCAA TAGAGACCCA CATTCATGTA TCAACAGCCA GAATGGCTTA
4101  CTCTTCTGGG TCTTCACCTG AGATGACAGC TCCTGGAGAG ACTAACACTG
4151  GTAGTACCTG GGACCCCACC ACCTACATCA CCACTACGGA TCCTAAGGAT
4201  ACAAGTTCAG CTCAGGTCTC TACACCCCAC TCAGTGAGGA CACTCAGAAC
4251  CACAGAAAAC CATCCAAAGA CAGAGTCCGC CACCCCAGCT GCTTACTCTG
4301  GAAGTCCTAA AATCTCAAGT TCACCCAATC TCACCAGTCC GGCCACAAAA
4351  GCATGGACCA TCACAGACAC AACTGAACAC TCCACTCAAT TACATTACAC
4401  AAAATTGGCA GAAAAATCAT CTGGATTTGA GACACAGTCA GCTCCAGGAC
4451  CTGTCTCTGT AGTAATCCCT ACCTCCCCTA CCATTGGAAG CAGCACATTG
4501  GAACTAACTT CTGATGTCCC AGGGGAACCC CTGGTCCTTG CTCCCAGTGA
4551  GCAGACCACA ATCACTCTCC CCATGGCAAC ATGGCTGAGT ACCAGTTTGA
4601  CAGAGGAAAT GGCTTCAACA GACCTTGATA TTTCAAGTCC AAGTTCACCC
4651  ATGAGTACAT TTGCTATTTT TCCACCTATG TCCACACCTT CTCATGAACT
4701  TTCAAAGTCA GAGGCAGATA CCAGTGCCAT TAGAAATACA GATTCAACAA
4751  CGTTGGATCA GCACCTAGGA ATCAGGAGTT TGGGCAGAAC TGGGGACTTA
4801  ACAACTGTTC CTATCACCCC ACTGACAACC ACGTGGACCA GTGTGATTGA
4851  ACACTCAACA CAAGCACAGG ACACCCTTTC TGCAACGATG AGTCCTACTC
4901  ACGTGACACA GTCACTCAAA GATCAAACAT CTATACCAGC CTCAGCATCC
4951  CCTTCCCATC TTACTGAAGT CTACCCTGAG CTCGGGACAC AAGGGAGAAG
```

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
5001	CTCCTCTGAG	GCAACCACTT	TTTGGAAACC	ATCTACAGAC	ACACTGTCCA
5051	GAGAGATTGA	GACTGGCCCA	ACAAACATTC	AATCCACTCC	ACCCATGGAC
5101	AACACAACAA	CAGGGAGCAG	TAGTAGTGGA	GTCACCCTGG	GCATAGCCCA
5151	CCTTCCCATA	GGAACATCCT	CCCCAGCTGA	GACATCCACA	AACATGGCAC
5201	TGGAAAGAAG	AAGTTCTACA	GCCACTGTCT	CTATGGCTGG	GACAATGGGA
5251	CTCCTTGTTA	CTAGTGCTCC	AGGAAGAAGC	ATCAGCCAGT	CATTAGGAAG
5301	AGTTTCCTCT	GTCCTTTCTG	AGTCAACTAC	TGAAGGAGTC	ACAGATTCTA
5351	GTAAGGGAAG	CAGCCCAAGG	CTGAACACAC	AGGGAAATAC	AGCTCTCTCC
5401	TCCTCTCTTG	AACCCAGCTA	TGCTGAAGGA	AGCCAGATGA	GCACAAGCAT
5451	CCCTCTAACC	TCATCTCCTA	CAACTCCTGA	TGTGGAATTC	ATAGGGGGCA
5501	GCACATTTTG	GACCAAGGAG	GTCACCACAG	TTATGACCTC	AGACATCTCC
5551	AAGTCTTCAG	CAAGGACAGA	GTCCAGCTCA	GCTACCCTTA	TGTCCACAGC
5601	TTTGGGAAGC	ACTGAAAATA	CAGGAAAAGA	AAAACTCAGA	ACTGCCTCTA
5651	TGGATCTTCC	ATCTCCAACT	CCATCAATGG	AGGTGACACC	ATGGATTTCT
5701	CTCACTCTCA	GTAATGCCCC	CAATACCACA	GATTCACTTG	ACCTCAGCCA
5751	TGGGGTGCAC	ACCAGCTCTG	CAGGGACTTT	GGCCACTGAC	AGGTCATTGA
5801	ATACTGGTGT	CACTAGAGCC	TCCAGATTGG	AAAACGGCTC	TGATACCTCT
5851	TCTAAGTCCC	TGTCTATGGG	AAACAGCACT	CACACTTCCA	TGACTGACAC
5901	AGAGAAGAGT	GAAGTGTCTT	CTTCAATCCA	TCCCCGACCT	GAGACCTCAG
5951	CTCCTGGAGC	AGAGACCACT	TTGACTTCCA	CTCCTGGAAA	CAGGGCCATA
6001	AGCTTAACAT	TGCCTTTTTC	ATCCATTCCA	GTGGAAGAAG	TCATTTCTAC
6051	AGGCATAACC	TCAGGACCAG	ACATCAACTC	AGCACCCATG	ACACATTCTC
6101	CCATCACCCC	ACCAACAATT	GTATGGACCA	GTACAGGCAC	AATTGAACAG
6151	TCCACTCAAC	CACTACATGC	AGTTTCTTCA	GAAAAAGTTT	CTGTGCAGAC
6201	ACAGTCAACT	CCATATGTCA	ACTCTGTGGC	AGTGTCTGCT	TCCCCTACCC

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
6251	ATGAGAATTC	AGTCTCTTCT	GGAAGCAGCA	CATCCTCTCC ATATTCCTCA
6301	GCCTCACTTG	AATCCTTGGA	TTCCACAATC	AGTAGGAGGA ATGCAATCAC
6351	TTCCTGGCTA	TGGGACCTCA	CTACATCTCT	CCCCACTACA ACTTGGCCAA
6401	GTACTAGTTT	ATCTGAGGCA	CTGTCCTCAG	GCCATTCTGG GGTTTCAAAC
6451	CCAAGTTCAA	CTACGACTGA	ATTTCCACTC	TTTTCAGCTG CATCCACATC
6501	TGCTGCTAAG	CAAAGAAATC	CAGAAACAGA	GACCCATGGT CCCCAGAATA
6551	CAGCCGCGAG	TACTTTGAAC	ACTGATGCAT	CCTCGGTCAC AGGTCTTTCT
6601	GAGACTCCTG	TGGGGGCAAG	TATCAGCTCT	GAAGTCCCTC TTCCAATGGC
6651	CATAACTTCT	AGATCAGATG	TTTCTGGCCT	TACATCTGAG AGTACTGCTA
6701	ACCCGAGTTT	AGGCACAGCC	TCTTCAGCAG	GGACCAAATT AACTAGGACA
6751	ATATCCCTGC	CCACTTCAGA	GTCTTTGGTT	TCCTTTAGAA TGAACAAGGA
6801	TCCATGGACA	GTGTCAATCC	CTTTGGGGTC	CCATCCAACT ACTAATACAG
6851	AAACAAGCAT	CCCAGTAAAC	AGCGCAGGTC	CACCTGGCTT GTCCACAGTA
6901	GCATCAGATG	TAATTGACAC	ACCTTCAGAT	GGGGCTGAGA GTATTCCCAC
6951	TGTCTCCTTT	TCCCCCTCCC	CTGATACTGA	AGTGACAACT ATCTCACATT
7001	TCCCAGAAAA	GACAACTCAT	TCATTTAGAA	CCATTTCATC TCTCACTCAT
7051	GAGTTGACTT	CAAGAGTGAC	ACCTATTCCT	GGGGATTGGA TGAGTTCAGC
7101	TATGTCTACA	AAGCCCACAG	GAGCCAGTCC	CTCCATTACA CTGGGAGAGA
7151	GAAGGACAAT	CACCTCTGCT	GCTCCAACCA	CTTCCCCCAT AGTTCTCACT
7201	GCTAGTTTCA	CAGAGACCAG	CACAGTTTCA	CTGGATAATG AAACTACAGT
7251	AAAAACCTCA	GATATCCTTG	ACGCACGGAA	AACAAATGAG CTCCCCTCAG
7301	ATAGCAGTTC	TTCTTCTGAT	CTGATCAACA	CCTCCATAGC TTCTTCAACT
7351	ATGGATGTCA	CTAAAACAGC	CTCCATCAGT	CCCACTAGCA TCTCAGGAAT
7401	GACAGCAAGT	TCCTCCCCAT	CTCTCTTCTC	TTCAGATAGA CCCCAGGTTC
7451	CCACATCTAC	AACAGAGACA	AATACAGCCA	CCTCTCCATC TGTTTCCAGT

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
7501	AACACCTATT	CTCTTGATGG	GGGCTCCAAT	GTGGGTGGCA	CTCCATCCAC
7551	TTTACCACCC	TTTACAATCA	CCCACCCTGT	CGAGACAAGC	TCGGCCCTAT
7601	TAGCCTGGTC	TAGACCAGTA	AGAACTTTCA	GCACCATGGT	CAGCACTGAC
7651	ACTGCCTCCG	GAGAAAATCC	TACCTCTAGC	AATTCTGTGG	TGACTTCTGT
7701	TCCAGCACCA	GGTACATGGG	CCAGTGTAGG	CAGTACTACT	GACTTACCTG
7751	CCATGGGCTT	TCTCAAGACA	AGTCCTGCAG	GAGAGGCACA	CTCACTTCTA
7801	GCATCAACTA	TTGAACCAGC	CACTGCCTTC	ACTCCCCATC	TCTCAGCAGC
7851	AGTGGTCACT	GGATCCAGTG	CTACATCAGA	AGCCAGTCTT	CTCACTACGA
7901	GTGAAAGCAA	AGCCATTCAT	TCTTCACCAC	AGACCCCAAC	TACACCCACC
7951	TCTGGAGCAA	ACTGGGAAAC	TTCAGCTACT	CCTGAGAGCC	TTTTGGTAGT
8001	CACTGAGACT	TCAGACACAA	CACTTACCTC	AAAGATTTTG	GTCACAGATA
8051	CCATCTTGTT	TTCAACTGTG	TCCACGCCAC	CTTCTAAATT	TCCAAGTACG
8101	GGGACTCTGT	CTGGAGCTTC	CTTCCCTACT	TTACTCCCGG	ACACTCCAGC
8151	CATCCCTCTC	ACTGCCACTG	AGCCAACAAG	TTCATTAGCT	ACATCCTTTG
8201	ATTCCACCCC	ACTGGTGACT	ATAGCTTCGG	ATAGTCTTGG	CACAGTCCCA
8251	GAGACTACCC	TGACCATGTC	AGAGACCTCA	AATGGTGATG	CACTGGTTCT
8301	TAAGACAGTA	AGTAACCCAG	ATAGGAGCAT	CCCTGGAATC	ACTATCCAAG
8351	GAGTAACAGA	AAGTCCACTC	CATCCTTCTT	CCACTTCCCC	CTCTAAGATT
8401	GTTGCTCCAC	GGAATACAAC	CTATGAAGGT	TCGATCACAG	TGGCACTTTC
8451	TACTTTGCCT	GCGGGAACTA	CTGGTTCCCT	TGTATTCAGT	CAGAGTTCTG
8501	AAAACTCAGA	GACAACGGCT	TTGGTAGACT	CATCAGCTGG	GCTTGAGAGG
8551	GCATCTGTGA	TGCCACTAAC	CACAGGAAGC	CAGGGTATGG	CTAGCTCTGG
8601	AGGAATCAGA	AGTGGGTCCA	CTCACTCAAC	TGGAACCAAA	ACATTTTCTT
8651	CTCTCCCTCT	GACCATGAAC	CCAGGTGAGG	TTACAGCCAT	GTCTGAAATC
8701	ACCACGAACA	GACTGACAGC	TACTCAATCA	ACAGCACCCA	AAGGGATACC

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
8751	TGTGAAGCCC	ACCAGTGCTG	AGTCAGGCCT	CCTAACACCT	GTCTCTGCCT
8801	CCTCAAGCCC	ATCAAAGGCC	TTTGCCTCAC	TGACTACAGC	TCCCCCATCA
8851	ACTTGGGGGA	TCCCACAGTC	TACCTTGACA	TTTGAGTTTT	CTGAGGTCCC
8901	AAGTTTGGAT	ACTAAGTCCG	CTTCTTTACC	AACTCCTGGA	CAGTCCCTGA
8951	ACACCATTCC	AGACTCAGAT	GCAAGCACAG	CATCTTCCTC	ACTGTCCAAG
9001	TCTCCAGAAA	AAAACCCAAG	GGCAAGGATG	ATGACTTCCA	CAAAGGCCAT
9051	AAGTGCAAGC	TCATTTCAAT	CAACAGGTTT	TACTGAAACC	CCTGAGGGAT
9101	CTGCCTCCCC	TTCTATGGCA	GGGCATGAAC	CCAGAGTCCC	CACTTCAGGA
9151	ACAGGGGACC	CTAGATATGC	CTCAGAGAGC	ATGTCTTATC	CAGACCCAAG
9201	CAAGGCATCA	TCAGCTATGA	CATCGACCTC	TCTTGCATCA	AAACTCACAA
9251	CTCTCTTCAG	CACAGGTCAA	GCAGCAAGGT	CTGGTTCTAG	TTCCTCTCCC
9301	ATAAGCCTAT	CCACTGAGAA	AGAAACAAGC	TTCCTTTCCC	CCACTGCATC
9351	CACCTCCAGA	AAGACTTCAC	TATTTCTTGG	GCCTTCCATG	GCAAGGCAGC
9401	CCAACATATT	GGTGCATCTT	CAGACTTCAG	CTCTGACACT	TTCTCCAACA
9451	TCCACTCTAA	ATATGTCCCA	GGAGGAGCCT	CCTGAGTTAA	CCTCAAGCCA
9501	GACCATTGCA	GAAGAAGAGG	GAACAACAGC	TGAAACACAG	ACGTTAACCT
9551	TCACACCATC	TGAGACCCCA	ACATCCTTGT	TACCTGTCTC	TTCTCCCACA
9601	GAACCCACAG	CCAGAAGAAA	GAGTTCTCCA	GAAACATGGG	CAAGCTCTAT
9651	TTCAGTTCCT	GCCAAGACCT	CCTTGGTTGA	AACAACTGAT	GGAACGCTAG
9701	TGACCACCAT	AAAGATGTCA	AGCCAGGCAG	CACAAGGAAA	TTCCACGTGG
9751	CCTGCCCCAG	CAGAGGAGAC	GGGGACCAGT	CCAGCAGGCA	CATCCCCAGG
9801	AAGCCCAGAA	GTGTCTACCA	CTCTCAAAAT	CATGAGCTCC	AAGGAACCCA
9851	GCATCAGCCC	AGAGATCAGG	TCCACTGTGC	GAAATTCTCC	TTGGAAGACT
9901	CCAGAAACAA	CTGTTCCCAT	GGAGACCACA	GTGGAACCAG	TCACCCTTCA
9951	GTCCACAGCC	CTAGGAAGTG	GCAGCACCAG	CATCTCTCAC	CTGCCCACAG

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)	
10001	GAACCACATC ACCAACCAAG TCACCAACAG AAAATATGTT GGCTACAGAA
10051	AGGGTCTCCC TCTCCCCATC CCCACCTGAG GCTTGGACCA ACCTTTATTC
10101	TGGAACTCCA GGAGGGACCA GGCAGTCACT GGCCACAATG TCCTCTGTCT
10151	CCCTAGAGTC ACCAACTGCT AGAAGCATCA CAGGGACTGG TCAGCAAAGC
10201	AGTCCAGAAC TGGTTTCAAA GACAACTGGA ATGGAATTCT CTATGTGGCA
10251	TGGCTCTACT GGAGGGACCA CAGGGGACAC ACATGTCTCT CTGAGCACAT
10301	CTTCCAATAT CCTTGAAGAC CCTGTAACCA GCCCAAACTC TGTGAGCTCA
10351	TTGACAGATA AATCCAAACA TAAAACCGAG ACATGGGTAA GCACCACAGC
10401	CATTCCCTCC ACTGTCCTGA ATAATAAGAT AATGGCAGCT GAACAACAGA
10451	CAAGTCGATC TGTGGATGAG GCTTATTCAT CAACTAGTTC TTGGTCAGAT
10501	CAGACATCTG GGAGTGACAT CACCCTTGGT GCATCTCCTG ATGTCACAAA
10551	CACATTATAC ATCACCTCCA CAGCACAAAC CACCTCACTA GTGTCTCTGC
10601	CCTCTGGAGA CCAAGGCATT ACAAGCCTCA CCAATCCCTC AGGAGGAAAA
10651	ACAAGCTCTG CGTCATCTGT CACATCTCCT TCAATAGGGC TTGAGACTCT
10701	GAGGGCCAAT GTAAGTGCAG TGAAAAGTGA CATTGCCCCT ACTGCTGGGC
10751	ATCTATCTCA GACTTCATCT CCTGCGGAAG TGAGCATCCT GGACGTAACC
10801	ACAGCTCCTA CTCCAGGTAT CTCCACCACC ATCACCACCA TGGGAACCAA
10851	CTCAATCTCA ACTACCACAC CCAACCCAGA AGTGGGTATG AGTACCATGG
10901	ACAGCACCCC GGCCACAGAG AGGCGCACAA CTTCTACAGA ACACCCTTCC
10951	ACCTGGTCTT CCACAGCTGC ATCAGATTCC TGGACTGTCA CAGACATGAC
11001	TTCAAACTTG AAAGTTGCAA GATCTCCTGG AACAATTTCC ACAATGCATA
11051	CAACTTCATT CTTAGCCTCA AGCACTGAAT TAGACTCCAT GTCTACTCCC
11101	CATGGCCGTA TAACTGTCAT TGGAACCAGC CTGGTCACTC CATCCTCTGA
11151	TGCTTCAGCT GTAAAGACAG AGACCAGTAC AAGTGAAAGA ACATTGAGTC
11201	CTTCAGACAC AACTGCATCT ACTCCCATCT CAACTTTTTC TCGTGTCCAG

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
11251	AGGATGAGCA	TCTCAGTTCC	TGACATTTTA	AGTACAAGTT	GGACTCCCAG
11301	TAGTACAGAA	GCAGAAGATG	TGCCTGTTTC	AATGGTTTCT	ACAGATCATG
11351	CTAGTACAAA	GACTGACCCA	AATACGCCCC	TGTCCACTTT	TCTGTTTGAT
11401	TCTCTGTCCA	CTCTTGACTG	GGACACTGGG	AGATCTCTGT	CATCAGCCAC
11451	AGCCACTACC	TCAGCTCCTC	AGGGGGCCAC	AACTCCCCAG	GAACTCACTT
11501	TGGAAACCAT	GATCAGCCCA	GCTACCTCAC	AGTTGCCCTT	CTCTATAGGG
11551	CACATTACAA	GTGCAGTCAC	ACCAGCTGCA	ATGGCAAGGA	GCTCTGGAGT
11601	TACTTTTTCA	AGACCAGATC	CCACAAGCAA	AAAGGCAGAG	CAGACTTCCA
11651	CTCAGCTTCC	CACCACCACT	TCTGCACATC	CAGGGCAGGT	GCCCAGATCA
11701	GCAGCAACAA	CTCTGGATGT	GATCCCACAC	ACAGCAAAAA	CTCCAGATGC
11751	AACTTTTCAG	AGACAAGGGC	AGACAGCTCT	TACAACAGAG	GCAAGAGCTA
11801	CATCTGACTC	CTGGAATGAG	AAAGAAAAAT	CAACCCCAAG	TGCACCTTGG
11851	ATCACTGAGA	TGATGAATTC	TGTCTCAGAA	GATACCATCA	AGGAGGTTAC
11901	CAGCTCCTCC	AGTGTATTAA	AGGACCCTGA	ATACGCTGGA	CATAAACTTG
11951	GAATCTGGGA	CGACTTCATC	CCCAAGTTTG	GAAAAGCAGC	CCATATGAGA
12001	GAGTTGCCCC	TTCTGAGTCC	ACCACAGGAC	AAAGAGGCAA	TTCACCCTTC
12051	TACAAACACA	GTAGAGACCA	CAGGCTGGGT	CACAAGTTCC	GAACATGCTT
12101	CTCATTCCAC	TATCCCAGCC	CACTCAGCGT	CATCCAAACT	CACATCTCCA
12151	GTGGTTACAA	CCTCCACCAG	GGAACAAGCA	ATAGTTTCTA	TGTCAACAAC
12201	CACATGGCCA	GAGTCTACAA	GGGCTAGAAC	AGAGCCTAAT	TCCTTCTTGA
12251	CTATTGAACT	GAGGGACGTC	AGCCCTTACA	TGGACACCAG	CTCAACCACA
12301	CAAACAAGTA	TTATCTCTTC	CCCAGGTTCC	ACTGCGATCA	CCAAGGGGCC
12351	TAGAACAGAA	ATTACCTCCT	CTAAGAGAAT	ATCCAGCTCA	TTCCTTGCCC
12401	AGTCTATGAG	GTCGTCAGAC	AGCCCCTCAG	AAGCCATCAC	CAGGCTGTCT
12451	AACTTTCCTG	CCATGACAGA	ATCTGGAGGA	ATGATCCTTG	CTATGCAAAC

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
12501	AAGTCCACCT	GGCGCTACAT	CACTAAGTGC	ACCTACTTTG	GATACATCAG
12551	CCACAGCCTC	CTGGACAGGG	ACTCCACTGG	CTACGACTCA	GAGATTTACA
12601	TACTCAGAGA	AGACCACTCT	CTTTAGCAAA	GGTCCTGAGG	ATACATCACA
12651	GCCAAGCCCT	CCCTCTGTGG	AAGAAACCAG	CTCTTCCTCT	TCCCTGGTAC
12701	CTATCCATGC	TACAACCTCG	CCTTCCAATA	TTTTGTTGAC	ATCACAAGGG
12751	CACAGTCCCT	CCTCTACTCC	ACCTGTGACC	TCAGTTTTCT	TGTCTGAGAC
12801	CTCTGGCCTG	GGGAAGACCA	CAGACATGTC	GAGGATAAGC	TTGGAACCTG
12851	GCACAAGTTT	ACCTCCCAAT	TTGAGCAGTA	CAGCAGGTGA	GGCGTTATCC
12901	ACTTATGAAG	CCTCCAGAGA	TACAAAGGCA	ATTCATCATT	CTGCAGACAC
12951	AGCAGTGACG	AATATGGAGG	CAACCAGTTC	TGAATATTCT	CCTATCCCAG
13001	GCCATACAAA	GCCATCCAAA	GCCACATCTC	CATTGGTTAC	CTCCCACATC
13051	ATGGGGGACA	TCACTTCTTC	CACATCAGTA	TTTGGCTCCT	CCGAGACCAC
13101	AGAGATTGAG	ACAGTGTCCT	CTGTGAACCA	GGGACTTCAG	GAGAGAAGCA
13151	CATCCCAGGT	GGCCAGCTCT	GCTACAGAGA	CAAGCACTGT	CATTACCCAT
13201	GTGTCTAGTG	GTGATGCTAC	TACTCATGTC	ACCAAGACAC	AAGCCACTTT
13251	CTCTAGCGGA	ACATCCATCT	CAAGCCCTCA	TCAGTTTATA	ACTTCTACCA
13301	ACACATTTAC	AGATGTGAGC	ACCAACCCCT	CCACCTCTCT	GATAATGACA
13351	GAATCTTCAG	GAGTGACCAT	CACCACCCAA	ACAGGTCCTA	CTGGAGCTGC
13401	AACACAGGGT	CCATATCTCT	TGGACACATC	AACCATGCCT	TACTTGACAG
13451	AGACTCCATT	AGCTGTGACT	CCAGATTTTA	TGCAATCAGA	GAAGACCACT
13501	CTCATAAGCA	AAGGTCCCAA	GGATGTGACC	TGGACAAGCC	CTCCCTCTGT
13551	GGCAGAAACC	AGCTATCCCT	CTTCCCTGAC	ACCTTTCTTG	GTCACAACCA
13601	TACCTCCTGC	CACTTCCACG	TTACAAGGGC	AACATACATC	CTCTCCTGTT
13651	TCTGCGACTT	CAGTTCTTAC	CTCTGGACTG	GTGAAGACCA	CAGATATGTT
13701	GAACACAAGC	ATGGAACCTG	TGACCAATTC	ACCTCAAAAT	TTGAACAATC

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
13751	CATCAAATGA	GATACTGGCC	ACTTTGGCAG	CCACCACAGA TATAGAGACT
13801	ATTCATCCTT	CCATAAACAA	AGCAGTGACC	AATATGGGGA CTGCCAGTTC
13851	AGCACATGTA	CTGCATTCCA	CTCTCCCAGT	CAGCTCAGAA CCATCTACAG
13901	CCACATCTCC	AATGGTTCCT	GCCTCCAGCA	TGGGGGACGC TCTTGCTTCT
13951	ATATCAATAC	CTGGTTCTGA	GACCACAGAC	ATTGAGGGAG AGCCAACATC
14001	CTCCCTGACT	GCTGGACGAA	AAGAGAACAG	CACCCTCCAG GAGATGAACT
14051	CAACTACAGA	GTCAAACATC	ATCCTCTCCA	ATGTGTCTGT GGGGGCTATT
14101	ACTGAAGCCA	CAAAAATGGA	AGTCCCCTCT	TTTGATGCAA CATTCATACC
14151	AACTCCTGCT	CAGTCAACAA	AGTTCCCAGA	TATTTTCTCA GTAGCCAGCA
14201	GTAGACTTTC	AAACTCTCCT	CCCATGACAA	TATCTACCCA CATGACCACC
14251	ACCCAGACAG	GGTCTTCTGG	AGCTACATCA	AAGATTCCAC TTGCCTTAGA
14301	CACATCAACC	TTGGAAACCT	CAGCAGGGAC	TCCATCAGTG GTGACTGAGG
14351	GGTTTGCCCA	CTCAAAAATA	ACCACTGCAA	TGAACAATGA TGTCAAGGAC
14401	GTGTCACAGA	CAAACCCTCC	CTTTCAGGAT	GAAGCCAGCT CTCCCTCTTC
14451	TCAAGCACCT	GTCCTTGTCA	CAACCTTACC	TTCTTCTGTT GCTTTCACAC
14501	CGCAATGGCA	CAGTACCTCC	TCTCCTGTTT	CTATGTCCTC AGTTCTTACT
14551	TCTTCACTGG	TAAAGACCGC	AGGCAAGGTG	GATACAAGCT TAGAAACAGT
14601	GACCAGTTCA	CCTCAAAGTA	TGAGCAACAC	TTTGGATGAC ATATCGGTCA
14651	CTTCAGCAGC	CACCACAGAT	ATAGAGACAA	CGCATCCTTC CATAAACACA
14701	GTAGTTACCA	ATGTGGGGAC	CACCGGTTCA	GCATTTGAAT CACATTCTAC
14751	TGTCTCAGCT	TACCCAGAGC	CATCTAAAGT	CACATCTCCA AATGTTACCA
14801	CCTCCACCAT	GGAAGACACC	ACAATTTCCC	GATCAATACC TAAATCCTCT
14851	AAGACTACAA	GAACTGAGAC	TGAGACAACT	TCCTCCCTGA CTCCTAAACT
14901	GAGGGAGACC	AGCATCTCCC	AGGAGATCAC	CTCGTCCACA GAGACAAGCA
14951	CTGTTCCTTA	CAAAGAGCTC	ACTGGTGCCA	CTACCGAGGT ATCCAGGACA

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
15001	GATGTCACTT	CCTCTAGCAG	TACATCCTTC	CCTGGCCCTG	ATCAGTCCAC
15051	AGTGTCACTA	GACATCTCCA	CAGAAACCAA	CACCAGGCTG	TCTACCTCCC
15101	CAATAATGAC	AGAATCTGCA	GAAATAACCA	TCACCACCCA	AACAGGTCCT
15151	CATGGGGCTA	CATCACAGGA	TACTTTTACC	ATGGACCCAT	CAAATACAAC
15201	CCCCCAGGCA	GGGATCCACT	CAGCTATGAC	TCATGGATTT	TCACAATTGG
15251	ATGTGACCAC	TCTTATGAGC	AGAATTCCAC	AGGATGTATC	ATGGACAAGT
15301	CCTCCCTCTG	TGGATAAAAC	CAGCTCCCCC	TCTTCCTTTC	TGTCCTCACC
15351	TGCAATGACC	ACACCTTCCC	TGATTTCTTC	TACCTTACCA	GAGGATAAGC
15401	TCTCCTCTCC	TATGACTTCA	CTTCTCACCT	CTGGCCTAGT	GAAGATTACA
15451	GACATATTAC	GTACACGCTT	GGAACCTGTG	ACCAGCTCAC	TTCCAAATTT
15501	CAGCAGCACC	TCAGATAAGA	TACTGGCCAC	TTCTAAAGAC	AGTAAAGACA
15551	CAAAGGAAAT	TTTTCCTTCT	ATAAACACAG	AAGAGACCAA	TGTGAAAGCC
15601	AACAACTCTG	GACATGAATC	CCATTCCCCT	GCACTGGCTG	ACTCAGAGAC
15651	ACCCAAAGCC	ACAACTCAAA	TGGTTATCAC	CACCACTGTG	GGAGATCCAG
15701	CTCCTTCCAC	ATCAATGCCA	GTGCATGGTT	CCTCTGAGAC	TACAAACATT
15751	AAGAGAGAGC	CAACATATTT	CTTGACTCCT	AGACTGAGAG	AGACCAGTAC
15801	CTCTCAGGAG	TCCAGCTTTC	CCACGGACAC	AAGTTTTCTA	CTTTCCAAAG
15851	TCCCCACTGG	TACTATTACT	GAGGTCTCCA	GTACAGGGGT	CAACTCTTCT
15901	AGCAAAATTT	CCACCCCAGA	CCATGATAAG	TCCACAGTGC	CACCTGACAC
15951	CTTCACAGGA	GAGATCCCCA	GGGTCTTCAC	CTCCTCTATT	AAGACAAAAT
16001	CTGCAGAAAT	GACGATCACC	ACCCAAGCAA	GTCCTCCTGA	GTCTGCATCG
16051	CACAGTACCC	TTCCCTTGGA	CACATCAACC	ACACTTTCCC	AGGGAGGGAC
16101	TCATTCAACT	GTGACTCAGG	GATTCCCATA	CTCAGAGGTG	ACCACTCTCA
16151	TGGGCATGGG	TCCTGGGAAT	GTGTCATGGA	TGACAACTCC	CCCTGTGGAA
16201	GAAACCAGCT	CTGTGTCTTC	CCTGATGTCT	TCACCTGCCA	TGACATCCCC

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
16251	TTCTCCTGTT	TCCTCCACAT	CACCACAGAG	CATCCCCTCC	TCTCCTCTTC
16301	CTGTGACTGC	ACTTCCTACT	TCTGTTCTGG	TGACAACCAC	AGATGTGTTG
16351	GGCACAACAA	GCCCAGAGTC	TGTAACCAGT	TCACCTCCAA	ATTTGAGCAG
16401	CATCACTCAT	GAGAGACCGG	CCACTTACAA	AGACACTGCA	CACACAGAAG
16451	CCGCCATGCA	TCATTCCACA	AACACCGCAG	TGACCAATGT	AGGGACTTCC
16501	GGGTCTGGAC	ATAAATCACA	ATCCTCTGTC	CTAGCTGACT	CAGAGACATC
16551	GAAAGCCACA	CCTCTGATGA	GTACCACCTC	CACCCTGGGG	GACACAAGTG
16601	TTTCCACATC	AACTCCTAAT	ATCTCTCAGA	CTAACCAAAT	TCAAACAGAG
16651	CCAACAGCAT	CCCTGAGCCC	TAGACTGAGG	GAGAGCAGCA	CGTCTGAGAA
16701	GACCAGCTCA	ACAACAGAGA	CAAATACTGC	CTTTTCTTAT	GTGCCCACAG
16751	GTGCTATTAC	TCAGGCCTCC	AGAACAGAAA	TCTCCTCTAG	CAGAACATCC
16801	ATCTCAGACC	TTGATCGGCC	CACAATAGCA	CCCGACATCT	CCACAGGAAT
16851	GATCACCAGG	CTCTTCACCT	CCCCCATCAT	GACAAAATCT	GCAGAAATGA
16901	CCGTCACCAC	TCAAACAACT	ACTCCTGGGG	CTACATCACA	GGGTATCCTT
16951	CCTTGGGACA	CATCAACCAC	ACTTTTCCAG	GGAGGGACTC	ATTCAACCGT
17001	GTCTCAGGGA	TTCCCACACT	CAGAGATAAC	CACTCTTCGG	AGCAGAACCC
17051	CTGGAGATGT	GTCATGGATG	ACAACTCCCC	CTGTGGAAGA	AACCAGCTCT
17101	GGGTTTTCCC	TGATGTCACC	TTCCATGACA	TCCCCTTCTC	CTGTTTCCTC
17151	CACATCACCA	GAGAGCATCC	CCTCCTCTCC	TCTCCCTGTG	ACTGCACTTC
17201	TTACTTCTGT	TCTGGTGACA	ACCACCAATG	TATTGGGCAC	AACAAGCCCA
17251	GAGACCGTAA	CGAGTTCACC	TCCAAATTTA	AGCAGCCCCA	CACAGGAGAG
17301	ACTGACCACT	TACAAAGACA	CTGCGCACAC	AGAAGCCATG	CATGCTTCCA
17351	TGCATACAAA	CACTGCAGTG	GCCAACGTCG	GGACCTCCAT	TTCTGGACAT
17401	GAATCACAAT	CTTCTGTCCC	AGCTGATTCA	CACACATCCA	AAGCCACATC
17451	TCCAATGGGT	ATCACCTTCG	CCATGGGGGA	TACAAGTGTT	TCTACATCAA

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
17501	CTCCTGCCTT	CTTTGAGACT	AGAATTCAGA	CTGAATCAAC	ATCCTCTTTG
17551	ATTCCTGGAT	TAAGGGACAC	CAGGACGTCT	GAGGAGATCA	ACACTGTGAC
17601	AGAGACCAGC	ACTGTCCTTT	CAGAAGTGCC	CACTACTACT	ACTACTGAGG
17651	TCTCCAGGAC	AGAAGTTATC	ACTTCCAGCA	GAACAACCAT	CTCAGGGCCT
17701	GATCATTCCA	AAATGTCACC	CTACATCTCC	ACAGAAACCA	TCACCAGGCT
17751	CTCCACTTTT	CCTTTTGTAA	CAGGATCCAC	AGAAATGGCC	ATCACCAACC
17801	AAACAGGTCC	TATAGGGACT	ATCTCACAGG	CTACCCTTAC	CCTGGACACA
17851	TCAAGCACAG	CTTCCTGGGA	AGGGACTCAC	TCACCTGTGA	CTCAGAGATT
17901	TCCACACTCA	GAGGAGACCA	CTACTATGAG	CAGAAGTACT	AAGGGCGTGT
17951	CATGGCAAAG	CCCTCCCTCT	GTGGAAGAAA	CCAGTTCTCC	TTCTTCCCCA
18001	GTGCCTTTAC	CTGCAATAAC	CTCACATTCA	TCTCTTTATT	CCGCAGTATC
18051	AGGAAGTAGC	CCCACTTCTG	CTCTCCCTGT	GACTTCCCTT	CTCACCTCTG
18101	GCAGGAGGAA	GACCATAGAC	ATGTTGGACA	CACACTCAGA	ACTTGTGACC
18151	AGCTCCTTAC	CAAGTGCAAG	TAGCTTCTCA	GGTGAGATAC	TCACTTCTGA
18201	AGCCTCCACA	AATACAGAGA	CAATTCACTT	TTCAGAGAAC	ACAGCAGAAA
18251	CCAATATGGG	GACCACCAAT	TCTATGCATA	AACTACATTC	CTCTGTCTCA
18301	ATCCACTCCC	AGCCATCCGG	ACACACACCT	CCAAAGGTTA	CTGGATCTAT
18351	GATGGAGGAC	GCTATTGTTT	CCACATCAAC	ACCTGGTTCT	CCTGAGACTA
18401	AAAATGTTGA	CAGAGACTCA	ACATCCCCTC	TGACTCCTGA	ACTGAAAGAG
18451	GACAGCACCG	CCCTGGTGAT	GAACTCAACT	ACAGAGTCAA	ACACTGTTTT
18501	CTCCAGTGTG	TCCCTGGATG	CTGCTACTGA	GGTCTCCAGG	GCAGAAGTCA
18551	CCTACTATGA	TCCTACATTC	ATGCCAGCTT	CTGCTCAGTC	AACAAAGTCC
18601	CCAGACATTT	CACCTGAAGC	CAGCAGCAGT	CATTCTAACT	CTCCTCCCTT
18651	GACAATATCT	ACACACAAGA	CCATCGCCAC	ACAAACAGGT	CCTTCTGGGG
18701	TGACATCTCT	TGGCCAACTG	ACCCTGGACA	CATCAACCAT	AGCCACCTCA

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)					
18751	GCAGGAACTC	CATCAGCCAG	AACTCAGGAT	TTTGTAGATT	CAGAAACAAC
18801	CAGTGTCATG	AACAATGATC	TCAATGATGT	GTTGAAGACA	AGCCCTTTCT
18851	CTGCAGAAGA	AGCCAACTCT	CTCTCTTCTC	AGGCACCTCT	CCTTGTGACA
18901	ACCTCACCTT	CTCCTGTAAC	TTCCACATTG	CAAGAGCACA	GTACCTCCTC
18951	TCTTGTTTCT	GTGACCTCAG	TACCCACCCC	TACACTGGCG	AAGATCACAG
19001	ACATGGACAC	AAACTTAGAA	CCTGTGACTC	GTTCACCTCA	AAATTTAAGG
19051	AACACCTTGG	CCACTTCAGA	AGCCACCACA	GATACACACA	CAATGCATCC
19101	TTCTATAAAC	ACAGCAATGG	CCAATGTGGG	GACCACCAGT	TCACCAAATG
19151	AATTCTATTT	TACTGTCTCA	CCTGACTCAG	ACCCATATAA	AGCCACATCC
19201	GCAGTAGTTA	TCACTTCCAC	CTCGGGGGAC	TCAATAGTTT	CCACATCAAT
19251	GCCTAGATCC	TCTGCGATGA	AAAAGATTGA	GTCTGAGACA	ACTTTCTCCC
19301	TGATATTTAG	ACTGAGGGAG	ACTAGCACCT	CCCAGAAAAT	TGGCTCATCC
19351	TCAGACACAA	GCACGGTCTT	TGACAAAGCA	TTCACTGCTG	CTACTACTGA
19401	GGTCTCCAGA	ACAGAACTCA	CCTCCTCTAG	CAGAACATCC	ATCCAAGGCA
19451	CTGAAAAGCC	CACAATGTCA	CCGGACACCT	CCACAAGATC	TGTCACCATG
19501	CTTTCTACTT	TTGCTGGCCT	GACAAAATCC	GAAGAAAGGA	CCATTGCCAC
19551	CCAAACAGGT	CCTCATAGGG	CGACATCACA	GGGTACCCTT	ACCTGGGACA
19601	CATCAATCAC	AACCTCACAG	GCAGGGACCC	ACTCAGCTAT	GACTCATGGA
19651	TTTTCACAAT	TAGATTTGTC	CACTCTTACG	AGTAGAGTTC	CTGAGTACAT
19701	ATCAGGGACA	AGCCCACCCT	CTGTGGAAAA	AACCAGCTCT	TCCTCTTCCC
19751	TTCTGTCTTT	ACCAGCAATA	ACCTCACCGT	CCCCTGTACC	TACTACATTA
19801	CCAGAAAGTA	GGCCGTCTTC	TCCTGTTCAT	CTGACTTCAC	TCCCCACCTC
19851	TGGCCTAGTG	AAGACCACAG	ATATGCTGGC	ATCTGTGGCC	AGTTTACCTC
19901	CAAACTTGGG	CAGCACCTCA	CATAAGATAC	CGACTACTTC	AGAAGACATT
19951	AAAGATACAG	AGAAAATGTA	TCCTTCCACA	AACATAGCAG	TAACCAATGT

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)				
20001	GGGGACCACC	ACTTCTGAAA	AGGAATCTTA	TTCGTCTGTC CCAGCCTACT
20051	CAGAACCACC	CAAAGTCACC	TCTCCAATGG	TTACCTCTTT CAACATAAGG
20101	GACACCATTG	TTTCCACATC	CATGCCTGGC	TCCTCTGAGA TTACAAGGAT
20151	TGAGATGGAG	TCAACATTCT	CCGTGGCTCA	TGGGCTGAAG GGAACCAGCA
20201	CCTCCCAGGA	CCCCATCGTA	TCCACAGAGA	AAAGTGCTGT CCTTCACAAG
20251	TTGACCACTG	GTGCTACTGA	GACCTCTAGG	ACAGAAGTTG CCTCTTCTAG
20301	AAGAACATCC	ATTCCAGGCC	CTGATCATTC	CACAGAGTCA CCAGACATCT
20351	CCACTGAAGT	GATCCCCAGC	CTGCCTATCT	CCCTTGGCAT TACAGAATCT
20401	TCAAATATGA	CCATCATCAC	TCGAACAGGT	CCTCCTCTTG GCTCTACATC
20451	ACAGGGCACA	TTTACCTTGG	ACACACCAAC	TACATCCTCC AGGGCAGGAA
20501	CACACTCGAT	GGCGACTCAG	GAATTTCCAC	ACTCAGAAAT GACCACTGTC
20551	ATGAACAAGG	ACCCTGAGAT	TCTATCATGG	ACAATCCCTC CTTCTATAGA
20601	GAAAACCAGC	TTCTCCTCTT	CCCTGATGCC	TTCACCAGCC ATGACTTCAC
20651	CTCCTGTTTC	CTCAACATTA	CCAAAGACCA	TTCACACCAC TCCTTCTCCT
20701	ATGACCTCAC	TGCTCACCCC	TAGCCTAGTG	ATGACCACAG ACACATTGGG
20751	CACAAGCCCA	GAACCTACAA	CCAGTTCACC	TCCAAATTTG AGCAGTACCT
20801	CACATGTGAT	ACTGACAACA	GATGAAGACA	CCACAGCTAT AGAAGCCATG
20851	CATCCTTCCA	CAAGCACAGC	AGCGACTAAT	GTGGAAACCA CCTGTTCTGG
20901	ACATGGGTCA	CAATCCTCTG	TCCTAACTGA	CTCAGAAAAA ACCAAGGCCA
20951	CAGCTCCAAT	GGATACCACC	TCCACCATGG	GGCATACAAC TGTTTCCACA
21001	TCAATGTCTG	TTTCCTCTGA	GACTACAAAA	ATTAAGAGAG AGTCAACATA
21051	TTCCTTGACT	CCTGGACTGA	GAGAGACCAG	CATTTCCCAA AATGCCAGCT
21101	TTTCCACTGA	CACAAGTATT	GTTCTTTCAG	AAGTCCCCAC TGGTACTACT
21151	GCTGAGGTCT	CCAGGACAGA	AGTCACCTCC	TCTGGTAGAA CATCCATCCC
21201	TGGCCCTTCT	CAGTCCACAG	TTTTGCCAGA	AATATCCACA AGAACAATGA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

21251 CAAGGCTCTT TGCCTCGCCC ACCATGACAG AATCAGCAGA AATGACCATC

21301 CCCACTCAAA CAGGTCCTTC TGGGTCTACC TCACAGGATA CCCTTACCTT

21351 GGACACATCC ACCACAAAGT CCCAGGCAAA GACTCATTCA ACTTTGACTC

21401 AGAGATTTCC ACACTCAGAG ATGACCACTC TCATGAGCAG AGGTCCTGGA

21451 GATATGTCAT GGCAAAGCTC TCCCTCTCTG GAAAATCCCA GCTCTCTCCC

21501 TTCCCTGCTG TCTTTACCTG CCACAACCTC ACCTCCTCCC ATTTCCTCCA

21551 CATTACCAGT GACTATCTCC TCCTCTCCTC TTCCTGTGAC TTCACTTCTC

21601 ACCTCTAGCC CGGTAACGAC CACAGACATG TTACACACAA GCCCAGAACT

21651 TGTAACCAGT TCACCTCCAA AGCTGAGCCA CACTTCAGAT GAGAGACTGA

21701 CCACTGGCAA GGACACCACA AATACAGAAG CTGTGCATCC TTCCACAAAC

21751 ACAGCAGCGT CCAATGTGGA GATTCCCAGC TTTGGACATG AATCCCCTTC

21801 CTCTGCCTTA GCTGACTCAG AGACATCCAA AGCCACATCA CCAATGTTTA

21851 TTACCTCCAC CCAGGAGGAT ACAACTGTTG CCATATCAAC CCCTCACTTC

21901 TTGGAGACTA GCAGAATTCA GAAAGAGTCA ATTTCCTCCC TGAGCCCTAA

21951 ATTGAGGGAG ACAGGCAGTT CTGTGGAGAC AAGCTCAGCC ATAGAGACAA

22001 GTGCTGTCCT TTCTGAAGTG TCCATTGGTG CTACTACTGA GATCTCCAGG

22051 ACAGAAGTCA CCTCCTCTAG CAGAACATCC ATCTCTGGTT CTGCTGAGTC

22101 CACAATGTTG CCAGAAATAT CCACCACAAG AAAAATCATT AAGTTCCCTA

22151 CTTCCCCCAT CCTGGCAGAA TCATCAGAAA TGACCATCAA GACCCAAACA

22201 AGTCCTCCTG GGTCTACATC AGAGAGTACC TTTACATTAG ACACATCAAC

22251 CACTCCCTCC TTGGTAATAA CCCATTCGAC TATGACTCAG AGATTGCCAC

22301 ACTCAGAGAT AACCACTCTT GTGAGTAGAG GTGCTGGGGA TGTGCCACGG

22351 CCCAGCTCTC TCCCTGTGGA AGAAACAAGC CCTCCATCTT CCCAGCTGTC

22401 TTTATCTGCC ATGATCTCAC CTTCTCCTGT TTCTTCCACA TTACCAGCAA

22451 GTAGCCACTC CTCTTCTGCT TCTGTGACTT CACCTCTCAC ACCAGGCCAA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

22501 GTGAAGACTA CTGAGGTGTT GGACGCAAGT GCAGAACCTG AAACCAGTTC

22551 ACCTCCAAGT TTGAGCAGCA CCTCAGTTGA AATACTGGCC ACCTCTGAAG

22601 TCACCACAGA TACGGAGAAA ATTCATCCTT TCCCAAACAC GGCAGTAACC

22651 AAAGTTGGAA CTTCCAGTTC TGGACATGAA TCCCCTTCCT CTGTCCTACC

22701 TGACTCAGAG ACAACCAAAG CCACATCGGC AATGGGTACC ATCTCCATTA

22751 TGGGGGATAC AAGTGTTTCT ACATTAACTC CTGCCTTATC TAACACTAGG

22801 AAAATTCAGT CAGAGCCAGC TTCCTCACTG ACCACCAGAT TGAGGGAGAC

22851 CAGCACCTCT GAAGAGACCA GCTTAGCCAC AGAAGCAAAC ACTGTTCTTT

22901 CTAAAGTGTC CACTGGTGCT ACTACTGAGG TCTCCAGGAC AGAAGCCATC

22951 TCCTTTAGCA GAACATCCAT GTCAGGCCCT GAGCAGTCCA CAATGTCACA

23001 AGACATCTCC ATAGGAACCA TCCCCAGGAT TTCTGCCTCC TCTGTCCTGA

23051 CAGAATCTGC AAAAATGACC ATCACAACCC AAACAGGTCC TTCGGAGTCT

23101 ACACTAGAAA GTACCCTTAA TTTGAACACA GCAACCACAC CCTCTTGGGT

23151 GGAAACCCAC TCTATAGTAA TTCAGGGATT TCCACACCCA GAGATGACCA

23201 CTTCCATGGG CAGAGGTCCT GGAGGTGTGT CATGGCCTAG CCCTCCCTTT

23251 GTGAAAGAAA CCAGCCCTCC ATCCTCCCCG CTGTCTTTAC CTGCCGTGAC

23301 CTCACCTCAT CCTGTTTCCA CCACATTCCT AGCACATATC CCCCCCTCTC

23351 CCCTTCCTGT GACTTCACTT CTCACCTCTG GCCCGGCGAC AACCACAGAT

23401 ATCTTGGGTA CAAGCACAGA ACCTGGAACC AGTTCATCTT CAAGTTTGAG

23451 CACCACCTCC CATGAGAGAC TGACCACTTA CAAAGACACT GCACATACAG

23501 AAGCCGTGCA TCCTTCCACA AACACAGGAG GGACCAATGT GGCAACCACC

23551 AGCTCTGGAT ATAAATCACA GTCCTCTGTC CTAGCTGACT CATCTCCAAT

23601 GTGTACCACC TCCACCATGG GGGATACAAG TGTTCTCACA TCAACTCCTG

23651 CCTTCCTTGA GACTAGGAGG ATTCAGACAG AGCTAGCTTC CTCCCTGACC

23701 CCTGGATTGA GGGAGTCCAG TGGCTCTGAA GGGACCAGCT CAGGCACCAA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

23751 GATGAGCACT GTCCTCTCTA AAGTGCCCAC TGGTGCTACT ACTGAGATCT

23801 CCAAGGAAGA CGTCACCTCC ATCCCAGGTC CCGCTCAATC CACAATATCA

23851 CCAGACATCT CCACAAGAAC CGTCAGCTGG TTCTCTACAT CCCCTGTCAT

23901 GACAGAATCA GCAGAAATAA CCATGAACAC CCATACAAGT CCTTTAGGGG

23951 CCACAACACA AGGCACCAGT ACTTTGGCCA CGTCAAGCAC AACCTCTTTG

24001 ACAATGACAC ACTCAACTAT ATCTCAAGGA TTTTCACACT CACAGATGAG

24051 CACTCTTATG AGGAGGGGTC CTGAGGATGT ATCATGGATG AGCCCTCCCC

24101 TTCTGGAAAA AACTAGACCT TCCTTTTCTC TGATGTCTTC ACCAGCCACA

24151 ACTTCACCTT CTCCTGTTTC CTCCACATTA CCAGAGAGCA TCTCTTCCTC

24201 TCCTCTTCCT GTGACTTCAC TCCTCACGTC TGGCTTGGCA AAAACTACAG

24251 ATATGTTGCA CAAAAGCTCA GAACCTGTAA CCAACTCACC TGCAAATTTG

24301 AGCAGCACCT CAGTTGAAAT ACTGGCCACC TCTGAAGTCA CCACAGATAC

24351 AGAGAAAACT CATCCTTCTT CAAACAGAAC AGTGACCGAT GTGGGGACCT

24401 CCAGTTCTGG ACATGAATCC ACTTCCTTTG TCCTAGCTGA CTCACAGACA

24451 TCCAAAGTCA CATCTCCAAT GGTTATTACC TCCACCATGG AGGATACGAG

24501 TGTCTCCACA TCAACTCCTG GCTTTTTTGA GACTAGCAGA ATTCAGACAG

24551 AACCAACATC CTCCCTGACC CTTGGACTGA GAAAGACCAG CAGCTCTGAG

24601 GGGACCAGCT TAGCCACAGA GATGAGCACT GTCCTTTCTG GAGTGCCCAC

24651 TGGTGCCACT GCTGAAGTCT CCAGGACAGA AGTCACCTCC TCTAGCAGAA

24701 CATCCATCTC AGGCTTTGCT CAGCTCACAG TGTCACCAGA GACTTCCACA

24751 GAAACCATCA CCAGACTCCC TACCTCCAGC ATAATGACAG AATCAGCAGA

24801 AATGATGATC AAGACACAAA CAGATCCTCC TGGGTCTACA CCAGAGAGTA

24851 CTCATACTGT GGACATATCA ACAACACCCA ACTGGGTAGA AACCCACTCG

24901 ACTGTGACTC AGAGATTTTC ACACTCAGAG ATGACCACTC TTGTGAGCAG

24951 AAGCCCTGGT GATATGTTAT GGCCTAGTCA ATCCTCTGTG GAAGAAACCA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

25001 GCTCTGCCTC TTCCCTGCTG TCTCTGCCTG CCACGACCTC ACCTTCTCCT

25051 GTTTCCTCTA CATTAGTAGA GGATTTCCCT TCCGCTTCTC TTCCTGTGAC

25101 TTCTCTTCTC ACCCCTGGCC TGGTGATAAC CACAGACAGG ATGGGCATAA

25151 GCAGAGAACC TGGAACCAGT TCCACTTCAA ATTTGAGCAG CACCTCCCAT

25201 GAGAGACTGA CCACTTTGGA AGACACTGTA GATACAGAAG ACATGCAGCC

25251 TTCCACACAC ACAGCAGTGA CCAACGTGAG GACCTCCATT TCTGGACATG

25301 AATCACAATC TTCTGTCCTA TCTGACTCAG AGACACCCAA AGCCACATCT

25351 CCAATGGGTA CCACCTACAC CATGGGGGAA ACGAGTGTTT CCATATCCAC

25401 TTCTGACTTC TTTGAGACCA GCAGAATTCA GATAGAACCA ACATCCTCCC

25451 TGACTTCTGG ATTGAGGGAG ACCAGCAGCT CTGAGAGGAT CAGCTCAGCC

25501 ACAGAGGGAA GCACTGTCCT TTCTGAAGTG CCCAGTGGTG CTACCACTGA

25551 GGTCTCCAGG ACAGAAGTGA TATCCTCTAG GGGAACATCC ATGTCAGGGC

25601 CTGATCAGTT CACCATATCA CCAGACATCT CTACTGAAGC GATCACCAGG

25651 CTTTCTACTT CCCCCATTAT GACAGAATCA GCAGAAAGTG CCATCACTAT

25701 TGAGACAGGT TCTCCTGGGG CTACATCAGA GGGTACCCTC ACCTTGGACA

25751 CCTCAACAAC AACCTTTTGG TCAGGGACCC ACTCAACTGC ATCTCCAGGA

25801 TTTTCACACT CAGAGATGAC CACTCTTATG AGTAGAACTC CTGGAGATGT

25851 GCCATGGCCG AGCCTTCCCT CTGTGGAAGA AGCCAGCTCT GTCTCTTCCT

25901 CACTGTCTTC ACCTGCCATG ACCTCAACTT CTTTTTTCTC CGCATTACCA

25951 GAGAGCATCT CCTCCTCTCC TCATCCTGTG ACTGCACTTC TCACCCTTGG

26001 CCCAGTGAAG ACCACAGACA TGTTGCGCAC AAGCTCAGAA CCTGAAACCA

26051 GTTCACCTCC AAATTTGAGC AGCACCTCAG CTGAAATATT AGCCACGTCT

26101 GAAGTCACCA AAGATAGAGA GAAAATTCAT CCCTCCTCAA ACACACCTGT

26151 AGTCAATGTA GGGACTGTGA TTTATAAACA TCTATCCCCT TCCTCTGTTT

26201 TGGCTGACTT AGTGACAACA AAACCCACAT CTCCAATGGC TACCACCTCC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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26251  ACTCTGGGGA ATACAAGTGT TTCCACATCA ACTCCTGCCT TCCCAGAAAC
26301  TATGATGACA CAGCCAACTT CCTCCCTGAC TTCTGGATTA AGGGAGATCA
26351  GTACCTCTCA AGAGACCAGC TCAGCAACAG AGAGAAGTGC TTCTCTTTCT
26401  GGAATGCCCA CTGGTGCTAC TACTAAGGTC TCCAGAACAG AAGCCCTCTC
26451  CTTAGGCAGA ACATCCACCC CAGGTCCTGC TCAATCCACA ATATCACCAG
26501  AAATCTCCAC GGAAACCATC ACTAGAATTT CTACTCCCCT CACCACGACA
26551  GGATCAGCAG AAATGACCAT CACCCCCAAA ACAGGTCATT CTGGGGCATC
26601  CTCACAAGGT ACCTTTACCT TGGACACATC AAGCAGAGCC TCCTGGCCAG
26651  GAACTCACTC AGCTGCAACT CACAGATCTC CACACTCAGG GATGACCACT
26701  CCTATGAGCA GAGGTCCTGA GGATGTGTCA TGGCCAAGCC GCCCATCAGT
26751  GGAAAAAACT AGCCCTCCAT CTTCCCTGGT GTCTTTATCT GCAGTAACCT
26801  CACCTTCGCC ACTTTATTCC ACACCATCTG AGAGTAGCCA CTCATCTCCT
26851  CTCCGGGTGA CTTCTCTTTT CACCCCTGTC ATGATGAAGA CCACAGACAT
26901  GTTGGACACA AGCTTGGAAC CTGTGACCAC TTCACCTCCC AGTATGAATA
26951  TCACCTCAGA TGAGAGTCTG GCCACTTCTA AAGCCACCAT GGAGACAGAG
27001  GCAATTCAGC TTTCAGAAAA CACAGCTGTG ACTCAGATGG GCACCATCAG
27051  CGCTAGACAA GAATTCTATT CCTCTTATCC AGGCCTCCCA GAGCCATCCA
27101  AAGTGACATC TCCAGTGGTC ACCTCTTCCA CCATAAAAGA CATTGTTTCT
27151  ACAACCATAC CTGCTTCCTC TGAGATAACA AGAATTGAGA TGGAGTCAAC
27201  ATCCACCCTG ACCCCCACAC CAAGGGAGAC CAGCACCTCC CAGGAGATCC
27251  ACTCAGCCAC AAAGCCAAGC ACTGTTCCTT ACAAGGCACT CACTAGTGCC
27301  ACGATTGAGG ACTCCATGAC ACAAGTCATG TCCTCTAGCA GAGGACCTAG
27351  CCCTGATCAG TCCACAATGT CACAAGACAT ATCCAGTGAA GTGATCACCA
27401  GGCTCTCTAC CTCCCCCATC AAGGCAGAAT CTACAGAAAT GACCATTACC
27451  ACCCAAACAG GTTCTCCTGG GGCTACATCA AGGGGTACCC TTACCTTGGA
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Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

27501 CACTTCAACA ACTTTTATGT CAGGGACCCA CTCAACTGCA TCTCAAGGAT

27551 TTTCACACTC ACAGATGACC GCTCTTATGA GTAGAACTCC TGGAGATGTG

27601 CCATGGCTAA GCCATCCCTC TGTGGAAGAA GCCAGCTCTG CCTCTTTCTC

27651 ACTGTCTTCA CCTGTCATGA CCTCATCTTC TCCCGTTTCT TCCACATTAC

27701 CAGACAGCAT CCACTCTTCT TCGCTTCCTG TGACATCACT TCTCACCTCA

27751 GGGCTGGTGA AGACCACAGA GCTGTTGGGC ACAAGCTCAG AACCTGAAAC

27801 CAGTTCACCC CCAAATTTGA GCAGCACCTC AGCTGAAATA CTGGCCACCA

27851 CTGAAGTCAC TACAGATACA GAGAAACTGG AGATGACCAA TGTGGTAACC

27901 TCAGGTTATA CACATGAATC TCCTTCCTCT GTCCTAGCTG ACTCAGTGAC

27951 AACAAAGGCC ACATCTTCAA TGGGTATCAC CTACCCCACA GGAGATACAA

28001 ATGTTCTCAC ATCAACCCCT GCCTTCTCTG ACACCAGTAG GATTCAAACA

28051 AAGTCAAAGC TCTCACTGAC TCCTGGGTTG ATGGAGACCA GCATCTCTGA

28101 AGAGACCAGC TCTGCCACAG AAAAAAGCAC TGTCCTTTCT AGTGTGCCCA

28151 CTGGTGCTAC TACTGAGGTC TCCAGGACAG AAGCCATCTC TTCTAGCAGA

28201 ACATCCATCC CAGGCCCTGC TCAATCCACA ATGTCATCAG ACACCTCCAT

28251 GGAAACCATC ACTAGAATTT CTACCCCCCT CACAAGGAAA GAATCAACAG

28301 ACATGGCCAT CACCCCCAAA ACAGGTCCTT CTGGGGCTAC CTCGCAGGGT

28351 ACCTTTACCT TGGACTCATC AAGCACAGCC TCCTGGCCAG GAACTCACTC

28401 AGCTACAACT CAGAGATTTC CACAGTCAGT GGTGACAACT CCTATGAGCA

28451 GAGGTCCTGA GGATGTGTCA TGGCCAAGCC CGCTGTCTGT GGAAAAAAAC

28501 AGCCCTCCAT CTTCCCTGGT ATCTTCATCT TCAGTAACCT CACCTTCGCC

28551 ACTTTATTCC ACACCATCTG GGAGTAGCCA CTCCTCTCCT GTCCCTGTCA

28601 CTTCTCTTTT CACCTCTATC ATGATGAAGG CCACAGACAT GTTGGATGCA

28651 AGTTTGGAAC CTGAGACCAC TTCAGCTCCC AATATGAATA TCACCTCAGA

28701 TGAGAGTCTG GCCACTTCTA AAGCCACCAC GGAGACAGAG GCAATTCACG

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

28751 TTTTTGAAAA TACAGCAGCG TCCCATGTGG AAACCACCAG TGCTACAGAG

28801 GAACTCTATT CCTCTTCCCC AGGCTTCTCA GAGCCAACAA AAGTGATATC

28851 TCCAGTGGTC ACCTCTTCCT CTATAAGAGA CAACATGGTT TCCACAACAA

28901 TGCCTGGCTC CTCTGGCATT ACAAGGATTG AGATAGAGTC AATGTCATCT

28951 CTGACCCCTG GACTGAGGGA GACCAGAACC TCCCAGGACA TCACCTCATC

29001 CACAGAGACA AGCACTGTCC TTTACAAGAT GTCCTCTGGT GCCACTCCTG

29051 AGGTCTCCAG GACAGAAGTT ATGCCCTCTA GCAGAACATC CATTCCTGGC

29101 CCTGCTCAGT CCACAATGTC ACTAGACATC TCCGATGAAG TTGTCACCAG

29151 GCTGTCTACC TCTCCCATCA TGACAGAATC TGCAGAAATA ACCATCACCA

29201 CCCAAACAGG TTATTCTCTG GCTACATCCC AGGTTACCCT TCCCTTGGGC

29251 ACCTCAATGA CCTTTTTGTC AGGGACCCAC TCAACTATGT CTCAAGGACT

29301 TTCACACTCA GAGATGACCA ATCTTATGAG CAGGGGTCCT GAAAGTCTGT

29351 CATGGACGAG CCCTCGCTTT GTGGAAACAA CTAGATCTTC CTCTTCTCTG

29401 ACATCATTAC CTCTCACGAC CTCACTTTCT CCTGTGTCCT CCACATTACT

29451 AGACAGTAGC CCCTCCTCTC CTCTTCCTGT GACTTCACTT ATCCTCCCAG

29501 GCCTGGTGAA GACTACAGAA GTGTTGGATA CAAGCTCAGA GCCTAAAACC

29551 AGTTCATCTC CAAATTTGAG CAGCACCTCA GTTGAAATAC CGGCCACCTC

29601 TGAAATCATG ACAGATACAG AGAAAATTCA TCCTTCCTCA AACACAGCGG

29651 TGGCCAAAGT GAGGACCTCC AGTTCTGTTC ATGAATCTCA TTCCTCTGTC

29701 CTAGCTGACT CAGAAACAAC CATAACCATA CCTTCAATGG GTATCACCTC

29751 CGCTGTGGAC GATACCACTG TTTTCACATC AAATCCTGCC TTCTCTGAGA

29801 CTAGGAGGAT TCCGACAGAG CCAACATTCT CATTGACTCC TGGATTCAGG

29851 GAGACTAGCA CCTCTGAAGA GACCACCTCA ATCACAGAAA CAAGTGCAGT

29901 CCTTTATGGA GTGCCCACTA GTGCTACTAC TGAAGTCTCC ATGACAGAAA

29951 TCATGTCCTC TAATAGAACA CACATCCCTG ACTCTGATCA GTCCACGATG

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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30001  TCTCCAGACA TCATCACTGA AGTGATCACC AGGCTCTCTT CCTCATCCAT
30051  GATGTCAGAA TCAACACAAA TGACCATCAC CACCCAAAAA AGTTCTCCTG
30101  GGGCTACAGC ACAGAGTACT CTTACCTTGG CCACAACAAC AGCCCCCTTG
30151  GCAAGGACCC ACTCAACTGT TCCTCCTAGA TTTTTACACT CAGAGATGAC
30201  AACTCTTATG AGTAGGAGTC CTGAAAATCC ATCATGGAAG AGCTCTCCCT
30251  TTGTGGAAAA AACTAGCTCT TCATCTTCTC TGTTGTCCTT ACCTGTCACG
30301  ACCTCACCTT CTGTTTCTTC CACATTACCG CAGAGTATCC CTTCCTCCTC
30351  TTTTTCTGTG ACTTCACTCC TCACCCCAGG CATGGTGAAG ACTACAGACA
30401  CAAGCACAGA ACCTGGAACC AGTTTATCTC CAAATCTGAG TGGCACCTCA
30451  GTTGAAATAC TGGCTGCCTC TGAAGTCACC ACAGATACAG AGAAAATTCA
30501  TCCTTCTTCA AGCATGGCAG TGACCAATGT GGGAACCACC AGTTCTGGAC
30551  ATGAACTATA TTCCTCTGTT TCAATCCACT CGGAGCCATC CAAGGCTACA
30601  TACCCAGTGG GTACTCCCTC TTCCATGGCT GAAACCTCTA TTTCCACATC
30651  AATGCCTGCT AATTTTGAGA CCACAGGATT TGAGGCTGAG CCATTTTCTC
30701  ATTTGACTTC TGGATTTAGG AAGACAAACA TGTCCCTGGA CACCAGCTCA
30751  GTCACACCAA CAAATACACC TTCTTCTCCT GGGTCCACTC ACCTTTTACA
30801  GAGTTCCAAG ACTGATTTCA CCTCTTCTGC AAAAACATCA TCCCCAGACT
30851  GGCCTCCAGC CTCACAGTAT ACTGAAATTC CAGTGGACAT AATCACCCCC
30901  TTTAATGCTT CTCCATCTAT TACGGAGTCC ACTGGGATAA CCTCCTTCCC
30951  AGAATCCAGG TTTACTATGT CTGTAACAGA AAGTACTCAT CATCTGAGTA
31001  CAGATTTGCT GCCTTCAGCT GAGACTATTT CCACTGGCAC AGTGATGCCT
31051  TCTCTATCAG AGGCCATGAC TTCATTTGCC ACCACTGGAG TTCCACGAGC
31101  CATCTCAGGT TCAGGTAGTC CATTCTCTAG GACAGAGTCA GGCCCTGGGG
31151  ATGCTACTCT GTCCACCATT GCAGAGAGCC TGCCTTCATC CACTCCTGTG
31201  CCATTCTCCT CTTCAACCTT CACTACCACT GATTCTTCAA CCATCCCAGC
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Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

31251 CCTCCATGAG ATAACTTCCT CTTCAGCTAC CCCATATAGA GTGGACACCA

31301 GTCTTGGGAC AGAGAGCAGC ACTACTGAAG GACGCTTGGT TATGGTCAGT

31351 ACTTTGGACA CTTCAAGCCA ACCAGGCAGG ACATCTTCAA CACCCATTTT

31401 GGATACCAGA ATGACAGAGA GCGTTGAGCT GGGAACAGTG ACAAGTGCTT

31451 ATCAAGTTCC TTCACTCTCA ACACGGTTGA CAAGAACTGA TGGCATTATG

31501 GAACACATCA CAAAAATACC CAATGAAGCA GCACACAGAG GTACCATAAG

31551 ACCAGTCAAA GGCCCTCAGA CATCCACTTC GCCTGCCAGT CCTAAAGGAC

31601 TACACACAGG AGGGACAAAA AGAATGGAGA CCACCACCAC AGCTTTGAAG

31651 ACCACCACCA CAGCTTTGAA GACCACTTCC AGAGCCACCT TGACCACCAG

31701 TGTCTATACT CCCACTTTGG GAACACTGAC TCCCCTCAAT GCATCAAGGC

31751 AAATGGCCAG CACAATCCTC ACAGAAATGA TGATCACAAC CCCATATGTT

31801 TTCCCTGATG TTCCAGAAAC GACATCCTCA TTGGCTACCA GCCTGGGAGC

31851 AGAAACCAGC ACAGCTCTTC CCAGGACAAC CCCATCTGTT CTCAATAGAG

31901 AATCAGAGAC CACAGCCTCA CTGGTCTCTC GTTCTGGGGC AGAGAGAAGT

31951 CCGGTTATTC AAACTCTAGA TGTTTCTTCT AGTGAGCCAG ATACAACAGC

32001 TTCATGGGTT ATCCATCCTG CAGAGACCAT CCCAACTGTT TCCAAGACAA

32051 CCCCCAATTT TTTCCACAGT GAATTAGACA CTGTATCTTC CACAGCCACC

32101 AGTCATGGGG CAGACGTCAG CTCAGCCATT CCAACAAATA TCTCACCTAG

32151 TGAACTAGAT GCACTGACCC CACTGGTCAC TATTTCGGGG ACAGATACTA

32201 GTACAACATT CCCAACACTG ACTAAGTCCC CACATGAAAC AGAGACAAGA

32251 ACCACATGGC TCACTCATCC TGCAGAGACC AGCTCAACTA TTCCCAGAAC

32301 AATCCCCAAT TTTTCTCATC ATGAATCAGA TGCCACACCT TCAATAGCCA

32351 CCAGTCCTGG GGCAGAAACC AGTTCAGCTA TTCCAATTAT GACTGTCTCA

32401 CCTGGTGCAG AAGATCTGGT GACCTCACAG GTCACTAGTT CTGGGACAGA

32451 CAGAAATATG ACTATTCCAA CTTTGACTCT TTCTCCTGGT GAACCAAAGA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

32501 CGATAGCCTC ATTAGTCACC CATCCTGAAG CACAGACAAG TTCGGCCATT

32551 CCAACTTCAA CTATCTCGCC TGCTGTATCA CGGTTGGTGA CCTCAATGGT

32601 CACCAGTTTG GCGGCAAAGA CAAGTACAAC TAATCGAGCT CTGACAAACT

32651 CCCCTGGTGA ACCAGCTACA ACAGTTTCAT TGGTCACGCA TCCTGCACAG

32701 ACCAGCCCAA CAGTTCCCTG GACAACTTCC ATTTTTTTCC ATAGTAAATC

32751 AGACACCACA CCTTCAATGA CCACCAGTCA TGGGGCAGAA TCCAGTTCAG

32801 CTGTTCCAAC TCCAACTGTT TCAACTGAGG TACCAGGAGT AGTGACCCCT

32851 TTGGTCACCA GTTCTAGGGC AGTGATCAGT ACAACTATTC CAATTCTGAC

32901 TCTTTCTCCT GGTGAACCAG AGACCACACC TTCAATGGCC ACCAGTCATG

32951 GGGAAGAAGC CAGTTCTGCT ATTCCAACTC CAACTGTTTC ACCTGGGGTA

33001 CCAGGAGTGG TGACCTCTCT GGTCACTAGT TCTAGGGCAG TGACTAGTAC

33051 AACTATTCCA ATTCTGACTT TTTCTCTTGG TGAACCAGAG ACCACACCTT

33101 CAATGGCCAC CAGTCATGGG ACAGAAGCTG GCTCAGCTGT TCCAACTGTT

33151 TTACCTGAGG TACCAGGAAT GGTGACCTCT CTGGTTGCTA GTTCTAGGGC

33201 AGTAACCAGT ACAACTCTTC CAACTCTGAC TCTTTCTCCT GGTGAACCAG

33251 AGACCACACC TTCAATGGCC ACCAGTCATG GGGCAGAAGC CAGCTCAACT

33301 GTTCCAACTG TTTCACCTGA GGTACCAGGA GTGGTGACCT CTCTGGTCAC

33351 TAGTTCTAGT GGAGTAAACA GTACAAGTAT TCCAACTCTG ATTCTTTCTC

33401 CTGGTGAACT AGAAACCACA CCTTCAATGG CCACCAGTCA TGGGGCAGAA

33451 GCCAGCTCAG CTGTTCCAAC TCCAACTGTT TCACCTGGGG TATCAGGAGT

33501 GGTGACCCCT CTGGTCACTA GTTCCAGGGC AGTGACCAGT ACAACTATTC

33551 CAATTCTAAC TCTTTCTTCT AGTGAGCCAG AGACCACACC TTCAATGGCC

33601 ACCAGTCATG GGGTAGAAGC CAGCTCAGCT GTTCTAACTG TTTCACCTGA

33651 GGTACCAGGA ATGGTGACCT CTCTGGTCAC TAGTTCTAGA GCAGTAACCA

33701 GTACAACTAT TCCAACTCTG ACTATTTCTT CTGATGAACC AGAGACCACA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

33751 ACTTCATTGG TCACCCATTC TGAGGCAAAG ATGATTTCAG CCATTCCAAC

33801 TTTAGCTGTC TCCCCTACTG TACAAGGGCT GGTGACTTCA CTGGTCACTA

33851 GTTCTGGGTC AGAGACCAGT GCGTTTTCAA ATCTAACTGT TGCCTCAAGT

33901 CAACCAGAGA CCATAGACTC ATGGGTCGCT CATCCTGGGA CAGAAGCAAG

33951 TTCTGTTGTT CCAACTTTGA CTGTCTCCAC TGGTGAGCCG TTTACAAATA

34001 TCTCATTGGT CACCCATCCT GCAGAGAGTA GCTCAACTCT TCCCAGGACA

34051 ACCTCAAGGT TTTCCCACAG TGAATTAGAC ACTATGCCTT CTACAGTCAC

34101 CAGTCCTGAG GCAGAATCCA GCTCAGCCAT TTCAACTACT ATTTCACCTG

34151 GTATACCAGG TGTGCTGACA TCACTGGTCA CTAGCTCTGG GAGAGACATC

34201 AGTGCAACTT TTCCAACAGT GCCTGAGTCC CCACATGAAT CAGAGGCAAC

34251 AGCCTCATGG GTTACTCATC CTGCAGTCAC CAGCACAACA GTTCCCAGGA

34301 CAACCCCTAA TTATTCTCAT AGTGAACCAG ACACCACACC ATCAATAGCC

34351 ACCAGTCCTG GGGCAGAAGC CACTTCAGAT TTTCCAACAA TAACTGTCTC

34401 ACCTGATGTA CCAGATATGG TAACCTCACA GGTCACTAGT TCTGGGACAG

34451 ACACCAGTAT AACTATTCCA ACTCTGACTC TTTCTTCTGG TGAGCCAGAG

34501 ACCACAACCT CATTTATCAC CTATTCTGAG ACACACACAA GTTCAGCCAT

34551 TCCAACTCTC CCTGTCTCCC CTGGTGCATC AAAGATGCTG ACCTCACTGG

34601 TCATCAGTTC TGGGACAGAC AGCACTACAA CTTTCCCAAC ACTGACGGAG

34651 ACCCCATATG AACCAGAGAC AACAGCCATA CAGCTCATTC ATCCTGCAGA

34701 GACCAACACA ATGGTTCCCA AGACAACTCC CAAGTTTTCC CATAGTAAGT

34751 CAGACACCAC ACTCCCAGTA GCCATCACCA GTCCTGGGCC AGAAGCCAGT

34801 TCAGCTGTTT CAACGACAAC TATCTCACCT GATATGTCAG ATCTGGTGAC

34851 CTCACTGGTC CCTAGTTCTG GGACAGACAC CAGTACAACC TTCCCAACAT

34901 TGAGTGAGAC CCCATATGAA CCAGAGACTA CAGTCACGTG GCTCACTCAT

34951 CCTGCAGAAA CCAGCACAAC GGTTTCTGGG ACAATTCCCA ACTTTTCCCA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

35001 TAGGGGATCA GACACTGCAC CCTCAATGGT CACCAGTCCT GGAGTAGACA

35051 CGAGGTCAGG TGTTCCAACT ACAACCATCC CACCCAGTAT ACCAGGGGTA

35101 GTGACCTCAC AGGTCACTAG TTCTGCAACA GACACTAGTA CAGCTATTCC

35151 AACTTTGACT CCTTCTCCTG GTGAACCAGA GACCACAGCC TCATCAGCTA

35201 CCCATCCTGG GACACAGACT GGCTTCACTG TTCCAATTCG GACTGTTCCC

35251 TCTAGTGAGC CAGATACAAT GGCTTCCTGG GTCACTCATC CTCCACAGAC

35301 CAGCACACCT GTTTCCAGAA CAACCTCCAG TTTTTCCCAT AGTAGTCCAG

35351 ATGCCACACC TGTAATGGCC ACCAGTCCTA GGACAGAAGC CAGTTCAGCT

35401 GTACTGACAA CAATCTCACC TGGTGCACCA GAGATGGTGA CTTCACAGAT

35451 CACTAGTTCT GGGGCAGCAA CCAGTACAAC TGTTCCAACT TTGACTCATT

35501 CTCCTGGTAT GCCAGAGACC ACAGCCTTAT TGAGCACCCA TCCCAGAACA

35551 GGGACAAGTA AAACATTTCC TGCTTCAACT GTGTTTCCTC AAGTATCAGA

35601 GACCACAGCC TCACTCACCA TTAGACCTGG TGCAGAGACT AGCACAGCTC

35651 TCCCAACTCA GACAACATCC TCTCTCTTCA CCCTACTTGT AACTGGAACC

35701 AGCAGAGTTG ATCTAAGTCC AACTGCTTCA CCTGGTGTTT CTGCAAAAAC

35751 AGCCCCACTT TCCACCCATC CAGGGACAGA GACCAGCACA ATGATTCCAA

35801 CTTCAACTCT TTCCCTTGGT TTACTAGAGA CTACAGGCTT ACTGGCCACC

35851 AGCTCTTCAG CAGAGACCAG CACGAGTACT CTAACTCTGA CTGTTTCCCC

35901 TGCTGTCTCT GGGCTTTCCA GTGCCTCTAT AACAACTGAT AAGCCCCAAA

35951 CTGTGACCTC CTGGAACACA GAAACCTCAC CATCTGTAAC TTCAGTTGGA

36001 CCCCCAGAAT TTTCCAGGAC TGTCACAGGC ACCACTATGA CCTTGATACC

36051 ATCAGAGATG CCAACACCAC CTAAAACCAG TCATGGAGAA GGAGTGAGTC

36101 CAACCACTAT CTTGAGAACT ACAATGGTTG AAGCCACTAA TTTAGCTACC

36151 ACAGGTTCCA GTCCCACTGT GGCCAAGACA ACAACCACCT TCAATACACT

36201 GGCTGGAAGC CTCTTTACTC CTCTGACCAC ACCTGGGATG TCCACCTTGG

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

36251 CCTCTGAGAG TGTGACCTCA AGAACAAGTT ATAACCATCG GTCCTGGATC

36301 TCCACCACCA GCAGTTATAA CCGTCGGTAC TGGACCCCTG CCACCAGCAC

36351 TCCAGTGACT TCTACATTCT CCCCAGGGAT TTCCACATCC TCCATCCCCA

36401 GCTCCACAGC AGCCACAGTC CCATTCATGG TGCCATTCAC CCTCAACTTC

36451 ACCATCACCA ACCTGCAGTA CGAGGAGGAC ATGCGGCACC CTGGTTCCAG

36501 GAAGTTCAAC GCCACAGAGA GAGAACTGCA GGGTCTGCTC AAACCCTTGT

36551 TCAGGAATAG CAGTCTGGAA TACCTCTATT CAGGCTGCAG ACTAGCCTCA

36601 CTCAGGCCAG AGAAGGATAG CTCAGCCATG GCAGTGGATG CCATCTGCAC

36651 ACATCGCCCT GACCCTGAAG ACCTCGGACT GGACAGAGAG CGACTGTACT

36701 GGGAGCTGAG CAATCTGACA AATGGCATCC AGGAGCTGGG CCCCTACACC

36751 CTGGACCGGA ACAGTCTCTA TGTCAATGGT TTCACCCATC GAAGCTCTAT

36801 GCCCACCACC AGCACTCCTG GGACCTCCAC AGTGGATGTG GGAACCTCAG

36851 GGACTCCATC CTCCAGCCCC AGCCCCACGG CTGCTGGCCC TCTCCTGATG

36901 CCGTTCACCC TCAACTTCAC CATCACCAAC CTGCAGTACG AGGAGGACAT

36951 GCGTCGCACT GGCTCCAGGA AGTTCAACAC CATGGAGAGT GTCCTGCAGG

37001 GTCTGCTCAA GCCCTTGTTC AAGAACACCA GTGTTGGCCC TCTGTACTCT

37051 GGCTGCAGAT TGACCTTGCT CAGGCCCGAG AAAGATGGGG CAGCCACTGG

37101 AGTGGATGCC ATCTGCACCC ACCGCCTTGA CCCCAAAAGC CCTGGACTCA

37151 ACAGGGAGCA GCTGTACTGG GAGCTAAGCA AACTGACCAA TGACATTGAA

37201 GAGCTGGGCC CCTACACCCT GGACAGGAAC AGTCTCTATG TCAATGGTTT

37251 CACCCATCAG AGCTCTGTGT CCACCACCAG CACTCCTGGG ACCTCCACAG

37301 TGGATCTCAG AACCTCAGGG ACTCCATCCT CCCTCTCCAG CCCCACAATT

37351 ATGGCTGCTG GCCCTCTCCT GGTACCATTC ACCCTCAACT TCACCATCAC

37401 CAACCTGCAG TATGGGGAGG ACATGGGTCA CCCTGGCTCC AGGAAGTTCA

37451 ACACCACAGA GAGGGTCCTG CAGGGTCTGC TTGGTCCCAT ATTCAAGAAC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

37501 ACCAGTGTTG GCCCTCTGTA CTCTGGCTGC AGACTGACCT CTCTCAGGTC

37551 TGAGAAGGAT GGAGCAGCCA CTGGAGTGGA TGCCATCTGC ATCCATCATC

37601 TTGACCCCAA AAGCCCTGGA CTCAACAGAG AGCGGCTGTA CTGGGAGCTG

37651 AGCCAACTGA CCAATGGCAT CAAAGAGCTG GGCCCCTACA CCCTGGACAG

37701 GAACAGTCTC TATGTCAATG GTTTCACCCA TCGGACCTCT GTGCCCACCA

37751 CCAGCACTCC TGGGACCTCC ACAGTGGACC TTGGAACCTC AGGGACTCCA

37801 TTCTCCCTCC CAAGCCCCGC AACTGCTGGC CCTCTCCTGG TGCTGTTCAC

37851 CCTCAACTTC ACCATCACCA ACCTGAAGTA TGAGGAGGAC ATGCATCGCC

37901 CTGGCTCCAG GAAGTTCAAC ACCACTGAGA GGGTCCTGCA GACTCTGCTT

37951 GGTCCTATGT TCAAGAACAC CAGTGTTGGC CTTCTGTACT CTGGCTGCAG

38001 ACTGACCTTG CTCAGGTCCG AGAAGGATGG AGCAGCCACT GGAGTGGATG

38051 CCATCTGCAC CCACCGTCTT GACCCCAAAA GCCCTGGACT GGACAGAGAG

38101 CAGCTATACT GGGAGCTGAG CCAGCTGACC AATGGCATCA AAGAGCTGGG

38151 CCCCTACACC CTGGACAGGA ACAGTCTCTA TGTCAATGGT TTCACCCATT

38201 GGATCCCTGT GCCCACCAGC AGCACTCCTG GGACCTCCAC AGTGGACCTT

38251 GGGTCAGGGA CTCCATCCTC CCTCCCCAGC CCCACAGCTG CTGGCCCTCT

38301 CCTGGTGCCA TTCACCCTCA ACTTCACCAT CACCAACCTG CAGTACGAGG

38351 AGGACATGCA TCACCCAGGC TCCAGGAAGT TCAACACCAC GGAGCGGGTC

38401 CTGCAGGGTC TGCTTGGTCC CATGTTCAAG AACACCAGTG TCGGCCTTCT

38451 GTACTCTGGC TGCAGACTGA CCTTGCTCAG GTCCGAGAAG GATGGAGCAG

38501 CCACTGGAGT GGATGCCATC TGCACCCACC GTCTTGACCC CAAAAGCCCT

38551 GGAGTGGACA GGGAGCAGCT ATACTGGGAG CTGAGCCAGC TGACCAATGG

38601 CATCAAAGAG CTGGGTCCCT ACACCCTGGA CAGAAACAGT CTCTATGTCA

38651 ATGGTTTCAC CCATCAGACC TCTGCGCCCA ACACCAGCAC TCCTGGGACC

38701 TCCACAGTGG ACCTTGGGAC CTCAGGGACT CCATCCTCCC TCCCCAGCCC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

38751 TACATCNGCT GGCCCTCTCC TGGTNCCNTT CACCCTCAAC TTCACCATCA

38801 CCAACCTGCA GTACGAGGAG GACATGCGGC ACCCNGGNTC CAGGAAGTTC

38851 AACACCACNG AGAGGGTNCT GCAGGGTCTG CTNAAGCCCC TNTTCAAGAG

38901 CACCAGTGTT GGCCCTCTGT ACTCTGGCTG CAGACTGACC TTGCTCAGGT

38951 CCGAGAAGGA TGGAGCAGCC ACTGGAGTGG ATGCCATCTG CACCCACCGT

39001 CTTGACCCCA AAAGCCCTGG AGTGGACAGG GAGCAGCTAT ACTGGGAGCT

39051 GAGCCAGCTG ACCAATGGCA TCAAAGAGCT GGGTCCCTAC ACCCTGGACA

39101 GAAACAGTCT CTATGTCAAT GGTTTCACCC ATCAGACCTC TGCGCCCAAC

39151 ACCAGCACTC CTGGGACCTC CACAGTGGAC CTTGGGACCT CAGGGACTCC

39201 ATCCTCCCTC CCCAGCCCTA CATCTGCTGG CCCTCTCCTG GTGCCATTCA

39251 CCCTCAACTT CACCATCACC AACCTGCAGT ACGAGGAGGA CATGCATCAC

39301 CCAGGCTCCA GGAAGTTCAA CACCACGGAG CGGGTCCTGC AGGGTCTGCT

39351 TGGTCCCATG TTCAAGAACA CCAGTGTCGG CCTTCTGTAC TCTGGCTGCA

39401 GACTGACCTT GCTCAGGCCT GAGAAGAATG GGGCAGCCAC TGGAATGGAT

39451 GCCATCTGCA GCCACCGTCT TGACCCCAAA AGCCCTGGAC TCAACAGAGA

39501 GCAGCTGTAC TGGGAGCTGA GCCAGCTGAC CCATGGCATC AAAGAGCTGG

39551 GCCCCTACAC CCTGGACAGG AACAGTCTCT ATGTCAATGG TTTCACCCAT

39601 CGGAGCTCTG TGGCCCCCAC CAGCACTCCT GGGACCTCCA CAGTGGACCT

39651 TGGGACCTCA GGGACTCCAT CCTCCCTCCC CAGCCCCACA ACAGCTGTTC

39701 CTCTCCTGGT GCCGTTCACC CTCAACTTTA CCATCACCAA TCTGCAGTAT

39751 GGGGAGGACA TGCGTCACCC TGGCTCCAGG AAGTTCAACA CCACAGAGAG

39801 GGTCCTGCAG GGTCTGCTTG GTCCCTTGTT CAAGAACTCC AGTGTCGGCC

39851 CTCTGTACTC TGGCTGCAGA CTGATCTCTC TCAGGTCTGA GAAGGATGGG

39901 GCAGCCACTG GAGTGGATGC CATCTGCACC CACCACCTTA ACCCTCAAAG

39951 CCCTGGACTG GACAGGGAGC AGCTGTACTG GCAGCTGAGC CAGATGACCA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

40001 ATGGCATCAA AGAGCTGGGC CCCTACACCC TGGACCGGAA CAGTCTCTAC

40051 GTCAATGGTT TCACCCATCG GAGCTCTGGG CTCACCACCA GCACTCCTTG

40101 GACTTCCACA GTTGACCTTG GAACCTCAGG GACTCCATCC CCCGTCCCCA

40151 GCCCCACAAC TGCTGGCCCT CTCCTGGTGC CATTCACCCT CAACTTCACC

40201 ATCACCAACC TGCAGTATGA GGAGGACATG CATCGCCCTG GATCTAGGAA

40251 GTTCAACACC ACAGAGAGGG TCCTGCAGGG TCTGCTTAGT CCCATTTTCA

40301 AGAACTCCAG TGTTGGCCCT CTGTACTCTG GCTGCAGACT GACCTCTCTC

40351 AGGCCCGAGA AGGATGGGGC AGCAACTGGA ATGGATGCTG TCTGCCTCTA

40401 CCACCCTAAT CCCAAAAGAC CTGGACTGGA CAGAGAGCAG CTGTACTGGG

40451 AGCTAAGCCA GCTGACCCAC AACATCACTG AGCTGGGCCC CTACAGCCTG

40501 GACAGGGACA GTCTCTATGT CAATGGTTTC ACCCATCAGA ACTCTGTGCC

40551 CACCACCAGT ACTCCTGGGA CCTCCACAGT GTACTGGGCA ACCACTGGGA

40601 CTCCATCCTC CTTCCCCGGC CACACAGAGC CTGGCCCTCT CCTGATACCA

40651 TTCACTTTCA ACTTTACCAT CACCAACCTG CATTATGAGG AAAACATGCA

40701 ACACCCTGGT TCCAGGAAGT TCAACACCAC GGAGAGGGTT CTGCAGGGTC

40751 TGCTCAAGCC CTTGTTCAAG AACACCAGTG TTGGCCCTCT GTACTCTGGC

40801 TGCAGACTGA CCTCTCTCAG GCCCGAGAAG GATGGGGCAG CAACTGGAAT

40851 GGATGCTGTC TGCCTCTACC ACCCTAATCC CAAAAGACCT GGGCTGGACA

40901 GAGAGCAGCT GTACTGGGAG CTAAGCCAGC TGACCCACAA CATCACTGAG

40951 CTGGGCCCCT ACAGCCTGGA CAGGGACAGT CTCTATGTCA ATGGTTTCAC

41001 CCATCAGAAC TCTGTGCCCA CCACCAGTAC TCCTGGGACC TCCACAGTGT

41051 ACTGGGCAAC CACTGGGACT CCATCCTCCT TCCCCGGCCA CACAGAGCCT

41101 GGCCCTCTCC TGATACCATT CACTTTCAAC TTTACCATCA CCAACCTGCA

41151 TTATGAGGAA AACATGCAAC ACCCTGGTTC CAGGAAGTTC AACACCACGG

41201 AGAGGGTTCT GCAGGGTCTG CTCAAGCCCT TGTTCAAGAA CACCAGTGTT

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

41251 GGCCCTCTGT ACTCTGGCTG CAGACTGACC TTGCTCAGAC CTGAGAAGCA

41301 TGAGGCAGCC ACTGGAGTGG ACACCATCTG TACCCACCGC GTTGATCCCA

41351 TCGGACCTGG ACTGGACAGG GAGCGGCTAT ACTGGGAGCT GAGCCAGCTG

41401 ACCAACAGCA TTACCGAACT GGGACCCTAC ACCCTGGACA GGGACAGTCT

41451 CTATGTCAAT GGCTTCAACC CTCGGAGCTC TGTGCCAACC ACCAGCACTC

41501 CTGGGACCTC CACAGTGCAC CTGGCAACCT CTGGGACTCC ATCCTCCCTG

41551 CCTGGCCACA CAGCCCCTGT CCCTCTCTTG ATACCATTCA CCCTCAACTT

41601 TACCATCACC AACCTGCATT ATGAGGAAAA CATGCAACAC CCTGGTTCCA

41651 GGAAGTTCAA CACCACGGAG AGGGTTCTGC AGGGTCTGCT CAAGCCCTTG

41701 TTCAAGAACA CCAGTGTTGG CCCTCTGTAC TCTGGCTGCA GACTGACCTT

41751 GCTCAGACCT GAGAAGCATG AGGCAGCCAC TGGAGTGGAC ACCATCTGTA

41801 CCCACCGCGT TGATCCCATC GGACCTGGAC TGNACAGNGA GCNGCTNTAC

41851 TGGGAGCTNA GCCANCTGAC CAANNNCATC NNNGAGCTGG GNCCCTACAC

41901 CCTGGACAGG NACAGTCTCT ATGTCAATGG TTTCACCCAT CNGANCTCTG

41951 NGCCCACCAC CAGCACTCCT GGGACCTCCA CAGTGNACNT NGGNACCTCN

42001 GGGACTCCAT CCTCCNTCCC CNGCCNCACA TCTGCTGGCC CTCTCCTGGT

42051 GCCATTCACC CTCAACTTCA CCATCACCAA CCTGCAGTAC GAGGAGGACA

42101 TGCATCACCC AGGCTCCAGG AAGTTCAACA CCACGGAGCG GGTCCTGCAG

42151 GGTCTGCTTG GTCCCATGTT CAAGAACACC AGTGTCGGCC TTCTGTACTC

42201 TGGCTGCAGA CTGACCTTGC TCAGGCCTGA GAAGAATGGG GCAGCCACTG

42251 GAATGGATGC CATCTGCAGC CACCGTCTTG ACCCCAAAAG CCCTGGACTC

42301 GACAGAGAGC AGCTGTACTG GGAGCTGAGC CAGCTGACCC ATGGCATCAA

42351 AGAGCTGGGC CCCTACACCC TGGACAGGAA CAGTCTCTAT GTCAATGGTT

42401 TCACCCATCG GAGCTCTGTG GCCCCCACCA GCACTCCTGG GACCTCCACA

42451 GTGGACCTTG GGACCTCAGG GACTCCATCC TCCCTCCCCA GCCCCACAAC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

42501 AGCTGTTCCT CTCCTGGTGC CGTTCACCCT CAACTTTACC ATCACCAATC

42551 TGCAGTATGG GGAGGACATG CGTCACCCTG GCTCCAGGAA GTTCAACACC

42601 ACAGAGAGGG TCCTGCAGGG TCTGCTTGGT CCCTTGTTCA AGAACTCCAG

42651 TGTCGGCCCT CTGTACTCTG GCTGCAGACT GATCTCTCTC AGGTCTGAGA

42701 AGGATGGGGC AGCCACTGGA GTGGATGCCA TCTGCACCCA CCACCTTAAC

42751 CCTCAAAGCC CTGGACTGGA CAGGGAGCAG CTGTACTGGC AGCTGAGCCA

42801 GATGACCAAT GGCATCAAAG AGCTGGGCCC CTACACCCTG GACCGGAACA

42851 GTCTCTACGT CAATGGTTTC ACCCATCGGA GCTCTGGGCT CACCACCAGC

42901 ACTCCTTGGA CTTCCACAGT TGACCTTGGA ACCTCAGGGA CTCCATCCCC

42951 CGTCCCCAGC CCCACAACTG CTGGCCCTCT CCTGGTGCCA TTCACCCTAA

43001 ACTTCACCAT CACCAACCTG CAGTATGAGG AGGACATGCA TCGCCCTGGA

43051 TCTAGGAAGT TCAACGCCAC AGAGAGGGTC CTGCAGGGTC TGCTTAGTCC

43101 CATATTCAAG AACTCCAGTG TTGGCCCTCT GTACTCTGGC TGCAGACTGA

43151 CCTCTCTCAG GCCCGAGAAG GATGGGGCAG CAACTGGAAT GGATGCTGTC

43201 TGCCTCTACC ACCCTAATCC CAAAAGACCT GGACTGGACA GAGAGCAGCT

43251 GTACTGGGAG CTAAGCCAGC TGACCCACAA CATCACTGAG CTGGGCCCCT

43301 ACAGCCTGGA CAGGGACAGT CTCTATGTCA ATGGTTTCAC CCATCAGAGC

43351 TCTATGACGA CCACCAGAAC TCCTGATACC TCCACAATGC ACCTGGCAAC

43401 CTCGAGAACT CCAGCCTCCC TGTCTGGACC TACGACCGCC AGCCCTCTCC

43451 TGGTGCTATT CACAATCAAC TGCACCATCA CCAACCTGCA GTACGAGGAG

43501 GACATGCGTC GCACTGGCTC CAGGAAGTTC AACACCATGG AGAGTGTCCT

43551 GCAGGGTCTG CTCAAGCCCT TGTTCAAGAA CACCAGTGTT GGCCCTCTGT

43601 ACTCTGGCTG CAGATTGACC TTGCTCAGGC CCAAGAAAGA TGGGGCAGCC

43651 ACTGGAGTGG ATGCCATCTG CACCCACCGC CTTGACCCCA AAAGCCCTGG

43701 ACTCAACAGG GAGCAGCTGT ACTGGGAGCT AAGCAAACTG ACCAATGACA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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43751  TTGAAGAGCT GGGCCCCTAC ACCCTGGACA GGAACAGTCT CTATGTCAAT

43801  GGTTTCACCC ATCAGAGCTC TGTGTCCACC ACCAGCACTC CTGGGACCTC

43851  CACAGTGGAT CTCAGAACCT CAGGGACTCC ATCCTCCCTC TCCAGCCCCA

43901  CAATTATGNC NNCTGNCCCT CTCCTGNTNC CNTTCACCNT CAACTTNACC

43951  ATCACCAACC TGCANTANGN GGANNACATG CNNCNCCCNG GNTCCAGGAA

44001  GTTCAACACC ACNGAGAGGG TCCTACAGGG TCTGCTCAGG CCCTTGTTCA

44051  AGAACACCAG TGTCAGCTCT CTGTACTCTG GTTGCAGACT GACCTTGCTC

44101  AGGCCTGAGA AGGATGGGGC AGCCACCAGA GTGGATGCTG CCTGCACCTA

44151  CCGCCCTGAT CCCAAAAGCC CTGGACTGGA CAGAGAGCAA CTATACTGGG

44201  AGCTGAGCCA GCTAACCCAC AGCATCACTG AGCTGGGACC CTACACCCTG

44251  GACAGGGTCA GTCTCTATGT CAATGGCTTC AACCCTCGGA GCTCTGTGCC

44301  AACCACCAGC ACTCCTGGGA CCTCCACAGT GCACCTGGCA ACCTCTGGGA

44351  CTCCATCCTC CCTGCCTGGC CACACANCNN CTGNCCCTCT CCTGNTNCCN

44401  TTCACCNTCA ACTTNACCAT CACCAACCTG CANTANGNGG ANNACATGCN

44451  NCNCCCNGGN TCCAGGAAGT TCAACACCAC NGAGAGGGTT CTGCAGGGTC

44501  TGCTCAAACC CTTGTTCAGG AATAGCAGTC TGGAATACCT CTATTCAGGC

44551  TGCAGACTAG CCTCACTCAG GCCAGAGAAG GATAGCTCAG CCATGGCAGT

44601  GGATGCCATC TGCACACATC GCCCTGACCC TGAAGACCTC GGACTGGACA

44651  GAGAGCGACT GTACTGGGAG CTGAGCAATC TGACAAATGG CATCCAGGAG

44701  CTGGGCCCCT ACACCCTGGA CCGGAACAGT CTCTACGTCA ATGGTTTCAC

44751  CCATCGGAGC TCTGGGCTCA CCACCAGCAC TCCTTGGACT TCCACAGTTG

44801  ACCTTGGAAC CTCAGGGACT CCATCCCCCG TCCCCAGCCC CACAACTGCT

44851  GGCCCTCTCC TGGTGCCATT CACCCTCAAC TTCACCATCA CCAACCTGCA

44901  GTATGAGGAG GACATGCATC GCCCTGGTTC CAGGAGGTTC AACACCACGG

44951  AGAGGGTTCT GCAGGGTCTG CTCACGCCCT TGTTCAAGAA CACCAGTGTT
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Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

45001 GGCCCTCTGT ACTCTGGCTG CAGACTGACC TTGCTCAGAC CTGAGAAGCA

45051 AGAGGCAGCC ACTGGAGTGG ACACCATCTG TACCCACCGC GTTGATCCCA

45101 TCGGACCTGG ACTGGACAGA GAGCGGCTAT ACTGGGAGCT GAGCCAGCTG

45151 ACCAACAGCA TCACAGAGCT GGGACCCTAC ACCCTGGATA GGGACAGTCT

45201 CTATGTCAAT GGCTTCAACC CTTGGAGCTC TGTGCCAACC ACCAGCACTC

45251 CTGGGACCTC CACAGTGCAC CTGGCAACCT CTGGGACTCC ATCCTCCCTG

45301 CCTGGCCACA CAGCCCCTGT CCCTCTCTTG ATACCATTCA CCCTCAACTT

45351 TACCATCACC GACCTGCATT ATGAAGAAAA CATGCAACAC CCTGGTTCCA

45401 GGAAGTTCAA CACCACGGAG AGGGTTCTGC AGGGTCTGCT CAAGCCCTTG

45451 TTCAAGAGCA CCAGCGTTGG CCCTCTGTAC TCTGGCTGCA GACTGACCTT

45501 GCTCAGACCT GAGAAACATG GGGCAGCCAC TGGAGTGGAC GCCATCTGCA

45551 CCCTCCGCCT TGATCCCACT GGTCCTGGAC TGGACAGAGA GCGGCTATAC

45601 TGGGAGCTGA GCCAGCTGAC CAACAGCGTT ACAGAGCTGG GCCCCTACAC

45651 CCTGGACAGG GACAGTCTCT ATGTCAATGG CTTCACCCAT CGGAGCTCTG

45701 TGCCAACCAC CAGTATTCCT GGGACCTCTG CAGTGCACCT GGAAACCTCT

45751 GGGACTCCAG CCTCCCTCCC TGGCCACACA GCCCCTGGCC CTCTCCTGGT

45801 GCCATTCACC CTCAACTTCA CTATCACCAA CCTGCAGTAT GAGGAGGACA

45851 TGCGTCACCC TGGTTCCAGG AAGTTCAGCA CCACGGAGAG AGTCCTGCAG

45901 GGTCTGCTCA AGCCCTTGTT CAAGAACACC AGTGTCAGCT CTCTGTACTC

45951 TGGTTGCAGA CTGACCTTGC TCAGGCCTGA GAAGGATGGG GCAGCCACCA

46001 GAGTGGATGC TGTCTGCACC CATCGTCCTG ACCCCAAAAG CCCTGGACTG

46051 GACAGAGAGC GGCTGTACTG GAAGCTGAGC CAGCTGACCC ACGGCATCAC

46101 TGAGCTGGGC CCCTACACCC TGGACAGGCA CAGTCTCTAT GTCAATGGTT

46151 TCACCCATCA GAGCTCTATG ACGACCACCA GAACTCCTGA TACCTCCACA

46201 ATGCACCTGG CAACCTCGAG AACTCCAGCC TCCCTGTCTG GACCTACGAC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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46251  CGCCAGCCCT CTCCTGGTGC TATTCACAAT TAACTTCACC ATCACTAACC
46301  TGCGGTATGA GGAGAACATG CATCACCCTG GCTCTAGAAA GTTTAACACC
46351  ACGGAGAGAG TCCTTCAGGG TCTGCTCAGG CCTGTGTTCA AGAACACCAG
46401  TGTTGGCCCT CTGTACTCTG GCTGCAGACT GACCACGCTC AGGCCCAAGA
46451  AGGATGGGGC AGCCACCAAA GTGGATGCCA TCTGCACCTA CCGCCCTGAT
46501  CCCAAAAGCC CTGGACTGGA CAGAGAGCAG CTATACTGGG AGCTGAGCCA
46551  GCTAACCCAC AGCATCACTG AGCTGGGCCC CTACACCCAG GACAGGGACA
46601  GTCTCTATGT CAATGGCTTC ACCCATCGGA GCTCTGTGCC AACCACCAGT
46651  ATTCCTGGGA CCTCTGCAGT GCACCTGGAA ACCTCTGGGA CTCCAGCCTC
46701  CCTCCCTGGC CACACAGCCC CTGGCCCTCT CCTGGTGCCA TTCACCCTCA
46751  ACTTCACTAT CACCAACCTG CAGTATGAGG AGGACATGCG TCACCCTGGT
46801  TCCAGGAAGT TCAACACCAC GGAGAGAGTC CTGCAGGGTC TGCTCAAGCC
46851  CTTGTTCAAG AGCACCAGTG TTGGCCCTCT GTACTCTGGC TGCAGACTGA
46901  CCTTGCTCAG GCCTGAAAAA CGTGGGGCAG CCACCGGCGT GGACACCATC
46951  TGCACTCACC GCCTTGACCC TCTAAACCCA GGACTGGACA GAGAGÇAGCT
47001  ATACTGGGAG CTGAGCAAAC TGACCCGTGG CATCATCGAG CTGGGCCCCT
47051  ACCTCCTGGA CAGAGGCAGT CTCTATGTCA ATGGTTTCAC CCATCGGACC
47101  TCTGTGCCCA CCACCAGCAC TCCTGGGACC TCCACAGTGG ACCTTGGAAC
47151  CTCAGGGACT CCATTCTCCC TCCCAAGCCC CGCANCNNCT GNCCCTCTCC
47201  TGNTNCCNTT CACCNTCAAC TTNACCATCA CCAACCTGCA NTANGNGGAN
47251  NACATGCNNC NCCCNGGNTC CAGGAAGTTC AACACCACNG AGAGGGTCCT
47301  GCAGACTCTG CTTGGTCCTA TGTTCAAGAA CACCAGTGTT GGCCTTCTGT
47351  ACTCTGGCTG CAGACTGACC TTGCTCAGGT CCGAGAAGGA TGGAGCAGCC
47401  ACTGGAGTGG ATGCCATCTG CACCCACCGT CTTGACCCCA AAAGCCCTGG
47451  AGTGGACAGG GAGCAACTAT ACTGGGAGCT GAGCCAGCTG ACCAATGGCA
```

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

47501 TTAAAGAACT GGGCCCCTAC ACCCTGGACA GGAACAGTCT CTATGTCAAT

47551 GGGTTCACCC ATTGGATCCC TGTGCCCACC AGCAGCACTC CTGGGACCTC

47601 CACAGTGGAC CTTGGGTCAG GGACTCCATC CTCCCTCCCC AGCCCCACAA

47651 CTGCTGGCCC TCTCCTGGTG CCGTTCACCC TCAACTTCAC CATCACCAAC

47701 CTGAAGTACG AGGAGGACAT GCATTGCCCT GGCTCCAGGA AGTTCAACAC

47751 CACAGAGAGA GTCCTGCAGA GTCTGCTTGG TCCCATGTTC AAGAACACCA

47801 GTGTTGGCCC TCTGTACTCT GGCTGCAGAC TGACCTTGCT CAGGTCCGAG

47851 AAGGATGGAG CAGCCACTGG AGTGGATGCC ATCTGCACCC ACCGTCTTGA

47901 CCCCAAAAGC CCTGGAGTGG ACAGGGAGCA GCTATACTGG GAGCTGAGCC

47951 AGCTGACCAA TGGCATCAAA GAGCTGGGTC CCTACACCCT GGACAGAAAC

48001 AGTCTCTATG TCAATGGTTT CACCCATCAG ACCTCTGCGC CCAACACCAG

48051 CACTCCTGGG ACCTCCACAG TGGACCTTGG GACCTCAGGG ACTCCATCCT

48101 CCCTCCCCAG CCCTACANCN NCTGNCCCTC TCCTGNTNCC NTTCACCNTC

48151 AACTTNACCA TCACCAACCT GCANTANGNG GANNACATGC NNCNCCCNGG

48201 NTCCAGGAAG TTCAACACCA CNGAGNGNGT NCTGCAGGGT CTGCTNNNNC

48251 CCNTNTTCAA GAACNCCAGT GTNGGCCNTC TGTACTCTGG CTGCAGACTG

48301 ACCTNNCTCA GGNCNGAGAA GNATGGNGCA GCCACTGGAN TGGATGCCAT

48351 CTGCANCCAC CNNCNTNANC CCAAAAGNCC TGGACTGNAC AGNGAGCNGC

48401 TNTACTGGGA GCTNAGCCAN CTGACCAANN NCATCNNNGA GCTGGGNCCC

48451 TACACCCTGG ACAGGNACAG TCTCTATGTC AATGGTTTCA CCCATTGGAT

48501 CCCTGTGCCC ACCAGCAGCA CTCCTGGGAC CTCCACAGTG GACCTTGGGT

48551 CAGGGACTCC ATCCTCCCTC CCCAGCCCCA CAACTGCTGG CCCTCTCCTG

48601 GTGCCGTTCA CCCTCAACTT CACCATCACC AACCTGAAGT ACGAGGAGGA

48651 CATGCATTGC CCTGGCTCCA GGAAGTTCAA CACCACAGAG AGAGTCCTGC

48701 AGAGTCTGCT TGGTCCCATG TTCAAGAACA CCAGTGTTGG CCCTCTGTAC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

48751 TCTGGCTGCA GACTGACCTC GCTCAGGTCC GAGAAGGATG GAGCAGCCAC

48801 TGGAGTGGAT GCCATCTGCA CCCACCGTGT TGACCCCAAA AGCCCTGGAG

48851 TGGACAGGGA GCAGCTATAC TGGGAGCTGA GCCAGCTGAC CAATGGCATC

48901 AAAGAGCTGG GTCCCTACAC CCTGGACAGA AACAGTCTCT ATGTCAATGG

48951 TTTCACCCAT CAGACCTCTG CGCCCAACAC CAGCACTCCT GGGACCTCCA

49001 CAGTGNACNT NGGNACCTCN GGGACTCCAT CCTCCNTCCC CNGCCNCACA

49051 TCTGCTGGCC CTCTCCTGGT GCCATTCACC CTCAACTTCA CCATCACCAA

49101 CCTGCAGTAC GAGGAGGACA TGCATCACCC AGGCTCCAGG AAGTTCAACA

49151 CCACGGAGCG GGTCCTGCAG GGTCTGCTTG GTCCCATGTT CAAGAACACC

49201 AGTGTCGGCC TTCTGTACTC TGGCTGCAGA CTGACCTTGC TCAGGCCTGA

49251 GAAGAATGGG GCAACCACTG GAATGGATGC CATCTGCACC CACCGTCTTG

49301 ACCCCAAAAG CCCTGGACTG NACAGNGAGC NGCTNTACTG GGAGCTNAGC

49351 CANCTGACCA ANNNCATCNN NGAGCTGGGN CCCTACACCC TGGACAGGNA

49401 CAGTCTCTAT GTCAATGGTT TCACCCATCN GANCTCTGNG CCCACCACCA

49451 GCACTCCTGG GACCTCCACA GTGNACNTNG GNACCTCNGG GACTCCATCC

49501 TCCNTCCCCN GCCNCACANC NNCTGNCCCT CTCCTGNTNC CNTTCACCNT

49551 CAACTTNACC ATCACCAACC TGCANTANGN GGANNACATG CNNCNCCCNG

49601 GNTCCAGGAA GTTCAACACC ACNGAGAGGG TTCTGCAGGG TCTGCTCAAA

49651 CCCTTGTTCA GGAATAGCAG TCTGGAATAC CTCTATTCAG GCTGCAGACT

49701 AGCCTCACTC AGGCCAGAGA AGGATAGCTC AGCCATGGCA GTGGATGCCA

49751 TCTGCACACA TCGCCCTGAC CCTGAAGACC TCGGACTGGA CAGAGAGCGA

49801 CTGTACTGGG AGCTGAGCAA TCTGACAAAT GGCATCCAGG AGCTGGGCCC

49851 CTACACCCTG GACCGGAACA GTCTCTATGT CAATGGTTTC ACCCATCGAA

49901 GCTCTATGCC CACCACCAGC ACTCCTGGGA CCTCCACAGT GGATGTGGGA

49951 ACCTCAGGGA CTCCATCCTC CAGCCCCAGC CCCACGACTG CTGGCCCTCT

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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50001  CCTGATACCA TTCACCCTCA ACTTCACCAT CACCAACCTG CAGTATGGGG
50051  AGGACATGGG TCACCCTGGC TCCAGGAAGT TCAACACCAC AGAGAGGGTC
50101  CTGCAGGGTC TGCTTGGTCC CATATTCAAG AACACCAGTG TTGGCCCTCT
50151  GTACTCTGGC TGCAGACTGA CCTCTCTCAG GTCTGAGAAG GATGGAGCAG
50201  CCACTGGAGT GGATGCCATC TGCATCCATC ATCTTGACCC CAAAAGCCCT
50251  GGACTCAACA GAGAGCGGCT GTACTGGGAG CTGAGCCAAC TGACCAATGG
50301  CATCAAAGAG CTGGGCCCCT ACACCCTGGA CAGGAACAGT CTCTATGTCA
50351  ATGGTTTCAC CCATCGGACC TCTGTGCCCA CCACCAGCAC TCCTGGGACC
50401  TCCACAGTGG ACCTTGGAAC CTCAGGGACT CCATTCTCCC TCCCAAGCCC
50451  CGCAACTGCT GGCCCTCTCC TGGTGCTGTT CACCCTCAAC TTCACCATCA
50501  CCAACCTGAA GTATGAGGAG GACATGCATC GCCCTGGCTC CAGGAAGTTC
50551  AACACCACTG AGAGGGTCCT GCAGACTCTG CTTGGTCCTA TGTTCAAGAA
50601  CACCAGTGTT GGCCTTCTGT ACTCTGGCTG CAGACTGACC TTGCTCAGGT
50651  CCGAGAAGGA TGGAGCAGCC ACTGGAGTGG ATGCCATCTG CACCCACCGT
50701  CTTGACCCCA AAAGCCCTGG ACTGNACAGN GAGCNGCTNT ACTGGGAGCT
50751  NAGCCANCTG ACCAANNNCA TCNNNGAGCT GGGNCCCTAC ACCCTGGACA
50801  GGNACAGTCT CTATGTCAAT GGTTTCACCC ATCNGANCTC TGNGCCCACC
50851  ACCAGCACTC CTGGGACCTC CACAGTGNAC NTNGGNACCT CNGGGACTCC
50901  ATCCTCCNTC CCCNGCCNCA CANCNNCTGN CCCTCTCCTG NTNCCNTTCA
50951  CCNTCAACTT NACCATCACC AACCTGCANT ANGNGGANNA CATGCNNCNC
51001  CCNGGNTCCA GGAAGTTCAA CACCACNGAG AGAGTCCTTC AGGGTCTGCT
51051  CAGGCCTGTG TTCAAGAACA CCAGTGTTGG CCCTCTGTAC TCTGGCTGCA
51101  GACTGACCTT GCTCAGGCCC AAGAAGGATG GGGCAGCCAC CAAAGTGGAT
51151  GCCATCTGCA CCTACCGCCC TGATCCCAAA AGCCCTGGAC TGGACAGAGA
51201  GCAGCTATAC TGGGAGCTGA GCCAGCTAAC CCACAGCATC ACTGAGCTGG
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Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)	
51251	GCCCCTACAC CCAGGACAGG GACAGTCTCT ATGTCAATGG CTTCACCCAT
51301	CGGAGCTCTG TGCCAACCAC CAGTATTCCT GGGACCTCTG CAGTGCACCT
51351	GGAAACCACT GGGACTCCAT CCTCCTTCCC CGGCCACACA GAGCCTGGCC
51401	CTCTCCTGAT ACCATTCACT TTCAACTTTA CCATCACCAA CCTGCGTTAT
51451	GAGGAAAACA TGCAACACCC TGGTTCCAGG AAGTTCAACA CCACGGAGAG
51501	GGTTCTGCAG GGTCTGCTCA CGCCCTTGTT CAAGAACACC AGTGTTGGCC
51551	CTCTGTACTC TGGCTGCAGA CTGACCTTGC TCAGACCTGA GAAGCAGGAG
51601	GCAGCCACTG GAGTGGACAC CATCTGTACC CACCGCGTTG ATCCCATCGG
51651	ACCTGGACTG GACAGAGAGC GGCTATACTG GGAGCTGAGC CAGCTGACCA
51701	ACAGCATCAC AGAGCTGGGA CCCTACACCC TGGATAGGGA CAGTCTCTAT
51751	GTCGATGGCT TCAACCCTTG GAGCTCTGTG CCAACCACCA GCACTCCTGG
51801	GACCTCCACA GTGCACCTGG CAACCTCTGG GACTCCATCC CCCCTGCCTG
51851	GCCACACAGC CCCTGTCCCT CTCTTGATAC CATTCACCCT CAACTTTACC
51901	ATCACCGACC TGCATTATGA AGAAAACATG CAACACCCTG GTTCCAGGAA
51951	GTTCAACACC ACGGAGAGGG TTCTGCAGGG TCTGCTCAAG CCCTTGTTCA
52001	AGAGCACCAG CGTTGGCCCT CTGTACTCTG GCTGCAGACT GACCTTGCTC
52051	AGACCTGAGA AACATGGGGC AGCCACTGGA GTGGACGCCA TCTGCACCCT
52101	CCGCCTTGAT CCCACTGGTC CTGGACTGGA CAGAGAGCGG CTATACTGGG
52151	AGCTGAGCCA GCTGACCAAC AGCATCACAG AGCTGGGACC CTACACCCTG
52201	GATAGGGACA GTCTCTATGT CAATGGCTTC AACCCTTGGA GCTCTGTGCC
52251	AACCACCAGC ACTCCTGGGA CCTCCACAGT GCACCTGGCA ACCTCTGGGA
52301	CTCCATCCTC CCTGCCTGGC CACACAACTG CTGGCCCTCT CCTGGTGCCG
52351	TTCACCCTCA ACTTCACCAT CACCAACCTG AAGTACGAGG AGGACATGCA
52401	TTGCCCTGGC TCCAGGAAGT TCAACACCAC AGAGAGAGTC CTGCAGAGTC
52451	TGCATGGTCC CATGTTCAAG AACACCAGTG TTGGCCCTCT GTACTCTGGC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

52501 TGCAGACTGA CCTTGCTCAG GTCCGAGAAG GATGGAGCAG CCACTGGAGT

52551 GGATGCCATC TGCACCCACC GTCTTGACCC CAAAAGCCCT GGACTGNACA

52601 GNGAGCNGCT NTACTGGGAG CTNAGCCANC TGACCAANNN CATCNNNGAG

52651 CTGGGNCCCT ACACCCTGGA CAGGNACAGT CTCTATGTCA ATGGTTTCAC

52701 CCATCNGANC TCTGNGCCCA CCACCAGCAC TCCTGGGACC TCCACAGTGN

52751 ACNTNGGNAC CTCNGGGACT CCATCCTCCN TCCCCNGCCN CACANCNNCT

52801 GNCCCTCTCC TGNTNCCNTT CACCNTCAAC TTNACCATCA CCAACCTGCA

52851 NTANGNGGAN NACATGCNNC NCCCNGGNTC CAGGAAGTTC AACACCACNG

52901 AGNGNGTNCT GCAGGGTCTG CTNNNNCCCN TNTTCAAGAA CNCCAGTGTN

52951 GGCCNTCTGT ACTCTGGCTG CAGACTGACC TNNCTCAGGN CNGAGAAGNA

53001 TGGNGCAGCC ACTGGANTGG ATGCCATCTG CANCCACCNN CNTNANCCCA

53051 AAAGNCCTGG ACTGNACAGN GAGCNGCTNT ACTGGGAGCT NAGCCANCTG

53101 ACCAACAGCA TCACAGAGCT GGGACCCTAC ACCCTGGATA GGGACAGTCT

53151 CTATGTCAAT GGTTTCACCC ATCGAAGCTC TATGCCCACC ACCAGTATTC

53201 CTGGGACCTC TGCAGTGCAC CTGGAAACCT CTGGGACTCC AGCCTCCCTC

53251 CCTGGCCACA CAGCCCCTGG CCCTCTCCTG GTGCCATTCA CCCTCAACTT

53301 CACTATCACC AACCTGCAGT ATGAGGAGGA CATGCGTCAC CCTGGTTCCA

53351 GGAAGTTCAA CACCACGGAG AGAGTCCTGC AGGGTCTGCT CAAGCCCTTG

53401 TTCAAGAGCA CCAGTGTTGG CCCTCTGTAC TCTGGCTGCA GACTGACCTT

53451 GCTCAGGCCT GAAAAACGTG GGGCAGCCAC CGGCGTGGAC ACCATCTGCA

53501 CTCACCGCCT TGACCCTCTA AACCCTGGAC TGNACAGNGA GCNGCTNTAC

53551 TGGGAGCTNA GCCANCTGAC CAANNNCATC NNNGAGCTGG GNCCCTACAC

53601 CCTGGACAGG NACAGTCTCT ATGTCAATGG TTTCACCCAT CNGANCTCTG

53651 NGCCCACCAC CAGCACTCCT GGGACCTCCA CAGTGNACNT NGGNACCTCN

53701 GGGACTCCAT CCTCCNTCCC CNGCCNCACA NCNNCTGNCC CTCTCCTGNT

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

53751 NCCNTTCACC NTCAACTTNA CCATCACCAA CCTGCANTAN GNGGANNACA

53801 TGCNNCNCCC NGGNTCCAGG AAGTTCAACA CCACNGAGNG NGTNCTGCAG

53851 GGTCTGCTNN NNCCCNTNTT CAAGAACNCC AGTGTNGGCC NTCTGTACTC

53901 TGGCTGCAGA CTGACCTNNC TCAGGNCNGA GAAGNATGGN GCAGCCACTG

53951 GANTGGATGC CATCTGCANC CACCNNCNTN ANCCCAAAAG NCCTGGACTG

54001 NACAGNGAGC NGCTNTACTG GGAGCTNAGC CANCTGACCA ANNNCATCNN

54051 NGAGCTGGGN CCCTACACCC TGGACAGGNA CAGTCTCTAT GTCAATGGTT

54101 TTCACCCTCG GAGCTCTGTG CCAACCACCA GCACTCCTGG GACCTCCACA

54151 GTGCACCTGG CAACCTCTGG GACTCCATCC TCCCTGCCTG GCCACACAGC

54201 CCCTGTCCCT CTCTTGATAC CATTCACCCT CAACTTTACC ATCACCAACC

54251 TGCATTATGA AGAAAACATG CAACACCCTG GTTCCAGGAA GTTCAACACC

54301 ACGGAGCGGG TCCTGCAGGG TCTGCTTGGT CCCATGTTCA AGAACACAAG

54351 TGTCGGCCTT CTGTACTCTG GCTGCAGACT GACCTTGCTC AGGCCTGAGA

54401 AGAATGGGGC AGCCACTGGA ATGGATGCCA TCTGCAGCCA CCGTCTTGAC

54451 CCCAAAAGCC CTGGACTGNA CAGNGAGCNG CTNTACTGGG AGCTNAGCCA

54501 NCTGACCAAN NNCATCNNNG AGCTGGGNCC CTACACCCTG GACAGGNACA

54551 GTCTCTATGT CAATGGTTTC ACCCATCNGA NCTCTGNGCC CACCACCAGC

54601 ACTCCTGGGA CCTCCACAGT GNACNTNGGN ACCTCNGGGA CTCCATCCTC

54651 CNTCCCCNGC CNCACANCNN CTGNCCCTCT CCTGNTNCCN TTCACCNTCA

54701 ACTTNACCAT CACCAACCTG CANTANGNGG ANNACATGCN NCNCCCNGGN

54751 TCCAGGAAGT TCAACACCAC NGAGNGNGTN CTGCAGGGTC TGCTNNNNCC

54801 CNTNTTCAAG AACNCCAGTG TNGGCCNTCT GTACTCTGGC TGCAGACTGA

54851 CCTNNCTCAG GNCNGAGAAG NATGGNGCAG CCACTGGANT GGATGCCATC

54901 TGCANCCACC NNCNTNANCC CAAAAGNCCT GGACTGNACA GNGAGCNGCT

54951 NTACTGGGAG CTNAGCCANC TGACCAANNN CATCNNNGAG CTGGGNCCCT

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

55001 ACACCCTGGA CAGGNACAGT CTCTATGTCA ATGGTTTCAC CCATCAGAAC

55051 TCTGTGCCCA CCACCAGTAC TCCTGGGACC TCCACAGTGT ACTGGGCAAC

55101 CACTGGGACT CCATCCTCCT TCCCCGGCCA CACAGAGCCT GGCCCTCTCC

55151 TGATACCATT CACTTTCAAC TTTACCATCA CCAACCTGCA TTATGAGGAA

55201 AACATGCAAC ACCCTGGTTC CAGGAAGTTC AACACCACGG AGAGGGTTCT

55251 GCAGGGTCTG CTCACGCCCT TGTTCAAGAA CACCAGTGTT GGCCCTCTGT

55301 ACTCTGGCTG CAGACTGACC TTGCTCAGAC CTGAGAAGCA GGAGGCAGCC

55351 ACTGGAGTGG ACACCATCTG TACCCACCGC GTTGATCCCA TCGGACCTGG

55401 ACTGNACAGN GAGCNGCTNT ACTGGGAGCT NAGCCANCTG ACCAANNNCA

55451 TCNNNGAGCT GGGNCCCTAC ACCCTGGACA GGNACAGTCT CTATGTCAAT

55501 GGTTTCACCC ATCNGANCTC TGNGCCCACC ACCAGCACTC CTGGGACCTC

55551 CACAGTGNAC NTNGGNACCT CNGGGACTCC ATCCTCCNTC CCCNGCCNCA

55601 CANCNNCTGN CCCTCTCCTG NTNCCNTTCA CCNTCAACTT NACCATCACC

55651 AACCTGCANT ANGNGGANNA CATGCNNCNC CCNGGNTCCA GGAAGTTCAA

55701 CACCACNGAG NGNGTNCTGC AGGGTCTGCT NNNNCCCNTN TTCAAGAACN

55751 CCAGTGTNGG CCNTCTGTAC TCTGGCTGCA GACTGACCTN NCTCAGGNCN

55801 GAGAAGNATG GNGCAGCCAC TGGANTGGAT GCCATCTGCA NCCACCNNCN

55851 TNANCCCAAA AGNCCTGGAC TGNACAGNGA GCNGCTNTAC TGGGAGCTNA

55901 GCCANCTGAC CAANNNCATC NNNGAGCTGG GNCCCTACAC CCTGGACAGG

55951 NACAGTCTCT ATGTCAATGG TTTCACCCAT CGGAGCTCTG TGCCAACCAC

56001 CAGCAGTCCT GGGACCTCCA CAGTGCACCT GGCAACCTCT GGGACTCCAT

56051 CCTCCCTGCC TGGCCACACA GCCCCTGTCC CTCTCTTGAT ACCATTCACC

56101 CTCAACTTTA CCATCACCAA CCTGCATTAT GAAGAAAACA TGCAACACCC

56151 TGGTTCCAGG AAGTTCAACA CCACGGAGAG GGTTCTGCAG GGTCTGCTCA

56201 AGCCCTTGTT CAAGAGCACC AGTGTTGGCC CTCTGTACTC TGGCTGCAGA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

56251 CTGACCTTGC TCAGACCTGA GAAACATGGG GCAGCCACTG GAGTGGACGC

56301 CATCTGCACC CTCCGCCTTG ATCCCACTGG TCCTGGACTG NACAGNGAGC

56351 NGCTNTACTG GGAGCTNAGC CANCTGACCA ANNNCATCNN NGAGCTGGGN

56401 CCCTACACCC TGGACAGGNA CAGTCTCTAT GTCAATGGTT TCACCCATCN

56451 GANCTCTGNG CCCACCACCA GCACTCCTGG GACCTCCACA GTGNACNTNG

56501 GNACCTCNGG GACTCCATCC TCCNTCCCCN GCCNCACANC NNCTGNCCCT

56551 CTCCTGNTNC CNTTCACCNT CAACTTNACC ATCACCAACC TGCANTANGN

56601 GGANNACATG CNNCNCCCNG GNTCCAGGAA GTTCAACACC ACNGAGNGNG

56651 TNCTGCAGGG TCTGCTNNNN CCCNTNTTCA AGAACNCCAG TGTNGGCCNT

56701 CTGTACTCTG GCTGCAGACT GACCTNNCTC AGGNCNGAGA AGNATGGNGC

56751 AGCCACTGGA NTGGATGCCA TCTGCANCCA CCNNCNTNAN CCCAAAAGNC

56801 CTGGACTGNA CAGNGAGCNG CTNTACTGGG AGCTNAGCCA NCTGACCAAN

56851 NNCATCNNNG AGCTGGGNCC CTACACCCTG GACAGGNACA GTCTCTATGT

56901 CAATGGTTTC ACCCATCGGA CCTCTGTGCC CACCACCAGC ACTCCTGGGA

56951 CCTCCACAGT GCACCTGGCA ACCTCTGGGA CTCCATCCTC CCTGCCTGGC

57001 CACACAGCCC CTGTCCCTCT CTTGATACCA TTCACCCTCA ACTTTACCAT

57051 CACCAACCTG CAGTATGAGG AGGACATGCA TCGCCCTGGA TCTAGGAAGT

57101 TCAACACCAC AGAGAGGGTC CTGCAGGGTC TGCTTAGTCC CATTTTCAAG

57151 AACTCCAGTG TTGGCCCTCT GTACTCTGGC TGCAGACTGA CCTCTCTCAG

57201 GCCCGAGAAG GATGGGGCAG CAACTGGAAT GGATGCTGTC TGCCTCTACC

57251 ACCCTAATCC CAAAAGACCT GGGCTGGACA GAGAGCAGCT GTACTGCGAG

57301 CTAAGCCAGC TGACCCACAA CATCACTGAG CTGGGCCCCT ACAGCCTGGA

57351 CAGGGACAGT CTCTATGTCA ATGGTTTCAC CCATCAGAAC TCTGTGCCCA

57401 CCACCAGTAC TCCTGGGACC TCCACAGTGT ACTGGGCAAC CACTGGGACT

57451 CCATCCTCCT TCCCCGGCCA CACANCNNCT GNCCCTCTCC TGNTNCCNTT

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

57501 CACCNTCAAC TTNACCATCA CCAACCTGCA NTANGNGGAN NACATGCNNC

57551 NCCCNGGNTC CAGGAAGTTC AACACCACNG AGNGNGTNCT GCAGGGTCTG

57601 CTNNNNCCCN TNTTCAAGAA CNCCAGTGTN GGCCNTCTGT ACTCTGGCTG

57651 CAGACTGACC TNNCTCAGGN CNGAGAAGNA TGGNGCAGCC ACTGGANTGG

57701 ATGCCATCTG CANCCACCNN CNTNANCCCA AAAGNCCTGG ACTGNACAGN

57751 GAGCNGCTNT ACTGGGAGCT NAGCCANCTG ACCAANNNCA TCNNNGAGCT

57801 GGGNCCCTAC ACCCTGGACA GGNACAGTCT CTATGTCAAT GGTTTCACCC

57851 ATTGGAGCTC TGGGCTCACC ACCAGCACTC CTTGGACTTC CACAGTTGAC

57901 CTTGGAACCT CAGGGACTCC ATCCCCCGTC CCCAGCCCCA CAACTGCTGG

57951 CCCTCTCCTG GTGCCATTCA CCCTAAACTT CACCATCACC AACCTGCAGT

58001 ATGAGGAGGA CATGCATCGC CCTGGATCTA GGAAGTTCAA CGCCACAGAG

58051 AGGGTCCTGC AGGGTCTGCT TAGTCCCATA TTCAAGAACA CCAGTGTTGG

58101 CCCTCTGTAC TCTGGCTGCA GACTGACCTT GCTCAGACCT GAGAAGCAGG

58151 AGGCAGCCAC TGGAGTGGAC ACCATCTGTA CCCACCGCGT TGATCCCATC

58201 GGACCTGGAC TGNACAGNGA GCNGCTNTAC TGGGAGCTNA GCCANCTGAC

58251 CAANNNCATC NNNGAGCTGG GNCCCTACAC CCTGGACAGG NACAGTCTCT

58301 ATGTCAATGG TTTCACCCAT CNGANCTCTG NGCCCACCAC CAGCACTCCT

58351 GGGACCTCCA CAGTGNACNT NGGNACCTCN GGGACTCCAT CCTCCNTCCC

58401 CNGCCNCACA NCNNCTGNCC CTCTCCTGNT NCCNTTCACC NTCAACTTNA

58451 CCATCACCAA CCTGCANTAN GNGGANNACA TGCNNCNCCC NGGNTCCAGG

58501 AAGTTCAACA CCACNGAGNG NGTNCTGCAG GGTCTGCTNN NNCCCNTNTT

58551 CAAGAACNCC AGTGTNGGCC NTCTGTACTC TGGCTGCAGA CTGACCTNNC

58601 TCAGGNCNGA GAAGNATGGN GCAGCCACTG GANTGGATGC CATCTGCANC

58651 CACCNNCNTN ANCCCAAAAG NCCTGGACTG NACAGNGAGC NGCTNTACTG

58701 GGAGCTNAGC CANCTGACCA ANNNCATCNN NGAGCTGGGN CCCTACACCC

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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58751  TGGACAGGNA CAGTCTCTAT GTCAATGGTT TCACCCATCG GAGCTTTGGG
58801  CTCACCACCA GCACTCCTTG GACTTCCACA GTTGACCTTG GAACCTCAGG
58851  GACTCCATCC CCCGTCCCCA GCCCCACAAC TGCTGGCCCT CTCCTGGTGC
58901  CATTCACCCT AAACTTCACC ATCACCAACC TGCAGTATGA GGAGGACATG
58951  CATCGCCCTG GCTCCAGGAA GTTCAACACC ACGGAGAGGG TCCTTCAGGG
59001  TCTGCTTACG CCCTTGTTCA GGAACACCAG TGTCAGCTCT CTGTACTCTG
59051  GTTGCAGACT GACCTTGCTC AGGCCTGAGA AGGATGGGGC AGCCACCAGA
59101  GTGGATGCTG TCTGCACCCA TCGTCCTGAC CCCAAAAGCC CTGGACTGNA
59151  CAGNGAGCNG CTNTACTGGG AGCTNAGCCA NCTGACCAAN NNCATCNNNG
59201  AGCTGGGNCC CTACACCCTG GACAGGNACA GTCTCTATGT CAATGGTTTC
59251  ACCCATCNGA NCTCTGNGCC CACCACCAGC ACTCCTGGGA CCTCCACAGT
59301  GNACNTNGGN ACCTCNGGGA CTCCATCCTC CNTCCCCNGC CNCACANCNN
59351  CTGNCCCTCT CCTGNTNCCN TTCACCNTCA ACTTNACCAT CACCAACCTG
59401  CANTANGNGG ANNACATGCN NCNCCCNGGN TCCAGGAAGT TCAACACCAC
59451  NGAGNGNGTN CTGCAGGGTC TGCTNNNNCC CNTNTTCAAG AACNCCAGTG
59501  TNGGCCNTCT GTACTCTGGC TGCAGACTGA CCTNNCTCAG GNCNGAGAAG
59551  NATGGNGCAG CCACTGGANT GGATGCCATC TGCANCCACC NNCNTNANCC
59601  CAAAAGNCCT GGACTGNACA GNGAGCNGCT NTACTGGGAG CTNAGCCANC
59651  TGACCAANNN CATCNNNGAG CTGGGNCCCT ACACCCTGGA CAGGNACAGT
59701  CTCTATGTCA ATGGTTTCAC CCATTGGATC CCTGTGCCCA CCAGCAGCAC
59751  TCCTGGGACC TCCACAGTGG ACCTTGGGTC AGGGACTCCA TCCTCCCTCC
59801  CCAGCCCCAC AACTGCTGGC CCTCTCCTGG TACCATTCAC CCTCAACTTC
59851  ACCATCACCA ACCTGCAGTA TGGGGAGGAC ATGGGTCACC CTGGCTCCAG
59901  GAAGTTCAAC ACCACAGAGA GGGTCCTGCA GGGTCTGCTT GGTCCCATAT
59951  TCAAGAACAC CAGTGTTGGC CCTCTGTACT CTGGCTGCAG ACTGACCTCT
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Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

60001 CTCAGGTCCG AGAAGGATGG AGCAGCCACT GGAGTGGATG CCATCTGCAT

60051 CCATCATCTT GACCCCAAAA GCCCTGGACT GNACAGNGAG CNGCTNTACT

60101 GGGAGCTNAG CCANCTGACC AANNNCATCN NNGAGCTGGG NCCCTACACC

60151 CTGGACAGGN ACAGTCTCTA TGTCAATGGT TTCACCCATC NGANCTCTGN

60201 GCCCACCACC AGCACTCCTG GGACCTCCAC AGTGNACNTN GGNACCTCNG

60251 GGACTCCATC CTCCNTCCCC NGCCNCACAN CNNCTGNCCC TCTCCTGNTN

60301 CCNTTCACCN TCAACTTNAC CATCACCAAC CTGCANTANG NGGANNACAT

60351 GCNNCNCCCN GGNTCCAGGA AGTTCAACAC CACNGAGNGN GTNCTGCAGG

60401 GTCTGCTNNN NCCCNTNTTC AAGAACNCCA GTGTNGGCCN TCTGTACTCT

60451 GGCTGCAGAC TGACCTNNCT CAGGNCNGAG AAGNATGGNG CAGCCACTGG

60501 ANTGGATGCC ATCTGCANCC ACCNNCNTNA NCCCAAAAGN CCTGGACTGN

60551 ACAGNGAGCN GCTNTACTGG GAGCTNAGCC ANCTGACCAA NNNCATCNNN

60601 GAGCTGGGNC CCTACACCCT GGACAGGNAC AGTCTCTATG TCAATGGTTT

60651 CACCCATCAG ACCTTTGCGC CCAACACCAG CACTCCTGGG ACCTCCACAG

60701 TGGACCTTGG GACCTCAGGG ACTCCATCCT CCCTCCCCAG CCCTACATCT

60751 GCTGGCCCTC TCCTGGTGCC ATTCACCCTC AACTTCACCA TCACCAACCT

60801 GCAGTACGAG GAGGACATGC ATCACCCAGG CTCCAGGAAG TTCAACACCA

60851 CGGAGCGGGT CCTGCAGGGT CTGCTTGGTC CCATGTTCAA GAACACCAGT

60901 GTCGGCCTTC TGTACTCTGG CTGCAGACTG ACCTTGCTCA GGCCTGAGAA

60951 GAATGGGGCA GCCACCAGAG TGGATGCTGT CTGCACCCAT CGTCCTGACC

61001 CCAAAAGCCC TGGACTGNAC AGNGAGCNGC TNTACTGGGA GCTNAGCCAN

61051 CTGACCAANN NCATCNNNGA GCTGGGNCCC TACACCCTGG ACAGGNACAG

61101 TCTCTATGTC AATGGTTTCA CCCATCNGAN CTCTGNGCCC ACCACCAGCA

61151 CTCCTGGGAC CTCCACAGTG NACNTNGGNA CCTCNGGGAC TCCATCCTCC

61201 NTCCCCNGCC NCACAGCCCC TGTCCCTCTC TTGATACCAT TCACCCTCAA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

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61251  CTTTACCATC ACCAACCTGC ATTATGAAGA AAACATGCAA CACCCTGGTT
61301  CCAGGAAGTT CAACACCACG GAGAGGGTTC TGCAGGGTCT GCTCAAGCCC
61351  TTGTTCAAGA GCACCAGCGT TGGCCCTCTG TACTCTGGCT GCAGACTGAC
61401  CTTGCTCAGA CCTGAGAAAC ATGGGGCAGC CACTGGAGTG GACGCCATCT
61451  GCACCCTCCG CCTTGATCCC ACTGGTCCTG GACTGGACAG AGAGCGGCTA
61501  TACTGGGAGC TGAGCCAGCT GACCAACAGC GTTACAGAGC TGGGCCCCTA
61551  CACCCTGGAC AGGGACAGTC TCTATGTCAA TGGCTTCACC CAGCGGAGCT
61601  CTGTGCCAAC CACCAGTATT CCTGGGACCT CTGCAGTGCA CCTGGAAACC
61651  TCTGGGACTC CAGCCTCCCT CCCTGGCCAC ACAGCCCCTG GCCCTCTCCT
61701  GGTGCCATTC ACCCTCAACT TCACTATCAC CAACCTGCAG TATGAGGTGG
61751  ACATGCGTCA CCCTGGTTCC AGGAAGTTCA ACACCACGGA GAGAGTCCTG
61801  CAGGGTCTGC TCAAGCCCTT GTTCAAGAGC ACCAGTGTTG GCCCTCTGTA
61851  CTCTGGCTGC AGACTGACCT TGCTCAGGCC TGAAAAACGT GGGGCAGCCA
61901  CCGGCGTGGA CACCATCTGC ACTCACCGCC TTGACCCTCT AAACCCTGGA
61951  CTGGACAGAG AGCAGCTATA CTGGGAGCTG AGCAAACTGA CCCGTGGCAT
62001  CATCGAGCTG GGCCCCTACC TCCTGGACAG AGGCAGTCTC TATGTCAATG
62051  GTTTCACCCA TCGGAACTTT GTGCCCATCA CCAGCACTCC TGGGACCTCC
62101  ACAGTACACC TAGGAACCTC TGAAACTCCA TCCTCCCTAC CTAGACCCAT
62151  AGTGCCTGGC CCTCTCCTGG TGCCATTCAC CCTCAACTTC ACCATCACCA
62201  ACTTGCAGTA TGAGGAGGCC ATGCGACACC CTGGCTCCAG GAAGTTCAAT
62251  ACCACGGAGA GGGTCCTACA GGGTCTGCTC AGGCCCTTGT TCAAGAATAC
62301  CAGTATCGGC CCTCTGTACT CCAGCTGCAG ACTGACCTTG CTCAGGCCAG
62351  AGAAGGACAA GGCAGCCACC AGAGTGGATG CCATCTGTAC CCACCACCCT
62401  GACCCTCAAA GCCCTGGACT GAACAGAGAG CAGCTGTACT GGGAGCTGAG
62451  CCAGCTGACC CACGGCATCA CTGAGCTGGG CCCCTACACC CTGGACAGGG
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Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

62501 ACAGTCTCTA TGTCGATGGT TTCACTCATT GGAGCCCCAT ACCGACCACC

62551 AGCACTCCTG GGACCTCCAT AGTGAACCTG GGAACCTCTG GGATCCCACC

62601 TTCCCTCCCT GAAACTACAN CNNCTGNCCC TCTCCTGNTN CCNTTCACCN

62651 TCAACTTNAC CATCACCAAC CTGCANTANG NGGANNACAT GCNNCNCCCN

62701 GGNTCCAGGA AGTTCAACAC CACNGAGAGG GTTCTGCAGG GTCTGCTCAA

62751 GCCCTTGTTC AAGAGCACCA GTGTTGGCCC TCTGTATTCT GGCTGCAGAC

62801 TGACCTTGCT CAGGCCTGAG AAGGACGGAG TAGCCACCAG AGTGGACGCC

62851 ATCTGCACCC ACCGCCCTGA CCCCAAAATC CCTGGGCTAG ACAGACAGCA

62901 GCTATACTGG GAGCTGAGCC AGCTGACCCA CAGCATCACT GAGCTGGGAC

62951 CCTACACCCT GGATAGGGAC AGTCTCTATG TCAATGGTTT CACCCAGCGG

63001 AGCTCTGTGC CCACCACCAG CACTCCTGGG ACTTTCACAG TACAGCCGGA

63051 AACCTCTGAG ACTCCATCAT CCCTCCCTGG CCCCACAGCC ACTGGCCCTG

63101 TCCTGCTGCC ATTCACCCTC AATTTTACCA TCACTAACCT GCAGTATGAG

63151 GAGGACATGC ATCGCCCTGG CTCCAGGAAG TTCAACACCA CGGAGAGGGT

63201 CCTTCAGGGT CTGCTTATGC CCTTGTTCAA GAACACCAGT GTCAGCTCTC

63251 TGTACTCTGG TTGCAGACTG ACCTTGCTCA GGCCTGAGAA GGATGGGGCA

63301 GCCACCAGAG TGGATGCTGT CTGCACCCAT CGTCCTGACC CCAAAAGCCC

63351 TGGACTGGAC AGAGAGCGGC TGTACTGGAA GCTGAGCCAG CTGACCCACG

63401 GCATCACTGA GCTGGGCCCC TACACCCTGG ACAGGCACAG TCTCTATGTC

63451 AATGGTTTCA CCCATCAGAG CTCTATGACG ACCACCAGAA CTCCTGATAC

63501 CTCCACAATG CACCTGGCAA CCTCGAGAAC TCCAGCCTCC CTGTCTGGAC

63551 CTACGACCGC CAGCCCTCTC CTGGTGCTAT TCACAATTAA CTTCACCATC

63601 ACTAACCTGC GGTATGAGGA GAACATGCAT CACCCTGGCT CTAGAAAGTT

63651 TAACACCACG GAGAGAGTCC TTCAGGGTCT GCTCAGGCCT GTGTTCAAGA

63701 ACACCAGTGT TGGCCCTCTG TACTCTGGCT GCAGACTGAC CTTGCTCAGG

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

63751 CCCAAGAAGG ATGGGGCAGC CACCAAAGTG GATGCCATCT GCACCTACCG

63801 CCCTGATCCC AAAAGCCCTG GACTGGACAG AGAGCAGCTA TACTGGGAGC

63851 TGAGCCAGCT AACCCACAGC ATCACTGAGC TGGGCCCCTA CACCCTGGAC

63901 AGGGACAGTC TCTATGTCAA TGGTTTCACA CAGCGGAGCT CTGTGCCCAC

63951 CACTAGCATT CCTGGGACCC CCACAGTGGA CCTGGGAACA TCTGGGACTC

64001 CAGTTTCTAA ACCTGGTCCC TCGGCTGCCA GCCCTCTCCT GGTGCTATTC

64051 ACTCTCAACT TCACCATCAC CAACCTGCGG TATGAGGAGA ACATGCAGCA

64101 CCCTGGCTCC AGGAAGTTCA ACACCACGGA GAGGGTCCTT CAGGGCCTGC

64151 TCAGGTCCCT GTTCAAGAGC ACCAGTGTTG GCCCTCTGTA CTCTGGCTGC

64201 AGACTGACTT TGCTCAGGCC TGAAAAGGAT GGGACAGCCA CTGGAGTGGA

64251 TGCCATCTGC ACCCACCACC CTGACCCCAA AAGCCCTAGG CTGGACAGAG

64301 AGCAGCTGTA TTGGGAGCTG AGCCAGCTGA CCCACAATAT CACTGAGCTG

64351 GGCCACTATG CCCTGGACAA CGACAGCCTC TTTGTCAATG GTTTCACTCA

64401 TCGGAGCTCT GTGTCCACCA CCAGCACTCC TGGGACCCCC ACAGTGTATC

64451 TGGGAGCATC TAAGACTCCA GCCTCGATAT TTGGCCCTTC AGCTGCCAGC

64501 CATCTCCTGA TACTATTCAC CCTCAACTTC ACCATCACTA ACCTGCGGTA

64551 TGAGGAGAAC ATGTGGCCTG GCTCCAGGAA GTTCAACACT ACAGAGAGGG

64601 TCCTTCAGGG CCTGCTAAGG CCCTTGTTCA AGAACACCAG TGTTGGCCCT

64651 CTGTACTCTG GCTCCAGGCT GACCTTGCTC AGGCCAGAGA AAGATGGGGA

64701 AGCCACCGGA GTGGATGCCA TCTGCACCCA CCGCCCTGAC CCCACAGGCC

64751 CTGGGCTGGA CAGAGAGCAG CTGTATTTGG AGCTGAGCCA GCTGACCCAC

64801 AGCATCACTG AGCTGGGCCC CTACACACTG GACAGGGACA GTCTCTATGT

64851 CAATGGTTTC ACCCATCGGA GCTCTGTACC CACCACCAGC ACCGGGGTGG

64901 TCAGCGAGGA GCCATTCACA CTGAACTTCA CCATCAACAA CCTGCGCTAC

64951 ATGGCGGACA TGGGCCAACC CGGCTCCCTC AAGTTCAACA TCACAGACAA

Table 4 (continued)

Human cDNA of CA125
(SEQ ID NO: 4)

65001 CGTCATGAAG CACCTGCTCA GTCCTTTGTT CCAGAGGAGC AGCCTGGGTG

65051 CACGGTACAC AGGCTGCAGG GTCATCGCAC TAAGGTCTGT GAAGAACGGT

65101 GCTGAGACAC GGGTGGACCT CCTCTGCACC TACCTGCAGC CCCTCAGCGG

65151 CCCAGGTCTG CCTATCAAGC AGGTGTTCCA TGAGCTGAGC CAGCAGACCC

65201 ATGGCATCAC CCGGCTGGGC CCCTACTCTC TGGACAAAGA CAGCCTCTAC

65251 CTTAACGGTT ACAATGAACC TGGTCTAGAT GAGCCTCCTA CAACTCCCAA

65301 GCCAGCCACC ACATTCCTGC CTCCTCTGTC AGAAGCCACA ACAGCCATGG

65351 GGTACCACCT GAAGACCCTC ACACTCAACT TCACCATCTC CAATCTCCAG

65401 TATTCACCAG ATATGGGCAA GGGCTCAGCT ACATTCAACT CCACCGAGGG

65451 GGTCCTTCAG CACCTGCTCA GACCCTTGTT CCAGAAGAGC AGCATGGGCC

65501 CCTTCTACTT GGGTTGCCAA CTGATCTCCC TCAGGCCTGA GAAGGATGGG

65551 GCAGCCACTG GTGTGGACAC CACCTGCACC TACCACCCTG ACCCTGTGGG

65601 CCCCGGGCTG GACATACAGC AGCTTTACTG GGAGCTGAGT CAGCTGACCC

65651 ATGGTGTCAC CCAACTGGGC TTCTATGTCC TGGACAGGGA TAGCCTCTTC

65701 ATCAATGGCT ATGCACCCCA GAATTTATCA ATCCGGGGCG AGTACCAGAT

65751 AAATTTCCAC ATTGTCAACT GGAACCTCAG TAATCCAGAC CCCACATCCT

65801 CAGAGTACAT CACCCTGCTG AGGGACATCC AGGACAAGGT CACCACACTC

65851 TACAAAGGCA GTCAACTACA TGACACATTC CGCTTCTGCC TGGTCACCAA

65901 CTTGACGATG GACTCCGTGT TGGTCACTGT CAAGGCATTG TTCTCCTCCA

65951 ATTTGGACCC CAGCCTGGTG GAGCAAGTCT TTCTAGATAA GACCCTGAAT

66001 GCCTCATTCC ATTGGCTGGG CTCCACCTAC CAGTTGGTGG ACATCCATGT

66051 GACAGAAATG GAGTCATCAG TTTATCAACC AACAAGCAGC TCCAGCACCC

66101 AGCACTTCTA CCTGAATTTC ACCATCACCA ACCTACCATA TTCCCAGGAC

66151 AAAGCCCAGC CAGGCACCAC CAATTACCAG AGGAACAAAA GGAATATTGA

66201 GGATGCGCTC AACCAACTCT TCCGAAACAG CAGCATCAAG AGTTATTTTT

Table 4 (continued)

Human cDNA of CA125 (SEQ ID NO: 4)

66251 CTGACTGTCA AGTTTCAACA TTCAGGTCTG TCCCCAACAG GCACCACACC

66301 GGGGTGGACT CCCTGTGTAA CTTCTCGCCA CTGGCTCGGA GAGTAGACAG

66351 AGTTGCCATC TATGAGGAAT TTCTGCGGAT GACCCGGAAT GGTACCCAGC

66401 TGCAGAACTT CACCCTGGAC AGGAGCAGTG TCCTTGTGGA TGGGTATTCT

66451 CCCAACAGAA ATGAGCCCTT AACTGGGAAT TCTGACCTTC CCTTCTGGGC

66501 TGTCATCCTC ATCGGCTTGG CAGGACTCCT GGGACTCATC ACATGCCTGA

66551 TCTGCGGTGT CCTGGTGACC ACCCGCCGGC GGAAGAAGGA AGGAGAATAC

66601 AACGTCCAGC AACAGTGCCC AGGCTACTAC CAGTCACACC TAGACCTGGA

66651 GGATCTGCAA TGACTGGAAC TTGCCGGTGC CTGGGGTGCC TTTCCCCCAG

66701 CCAGGGTCCA AAGAAGCTTG GCTGGGGCAG AAATAAACCA TATTGGTCGG

66751 AAAAAAAAAA AAAAA

Table 5

Human Protein of CA125 Molecule
(SEQ ID NO: 5)

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   1  MLKPSGLPGS SSPTRSLMTG SRSTKATPEM DSGLTGATLS PKTSTGAIVV
  51  TEHTLPFTSP DKTLASPTSS VVGRTTQSLG VMSSALPEST SRGMTHSEQR
 101  TSPSLSPQVN GTPSRNYPAT SMVSGLSSPR TRTSSTEGNF TKEASTYTLT
 151  VETTSGPVTE KYTVPTETST TEGDSTETPW DTRYIPVKIT SPMKTFADST
 201  ASKENAPVSM TPAETTVTDS HTPGRTNPSF GTLYSSFLDL SPKGTPNSRG
 251  ETSLELILST TGYPFSSPEP GSAGHSRIST SAPLSSSASV LDNKISETSI
 301  FSGQSLTSPL SPGVPEARAS TMPNSAIPFS MTLSNAETSA ERVRSTISSL
 351  GTPSISTKQT AETILTFHAF AETMDIPSTH IAKTLASEWL GSPGTLGGTS
 401  TSALTTTSPS TTLVSEETNT HHSTSGKETE GTLNTSMTPL ETSAPGEESE
 451  MTATLVPTLG FTTLDSKIRS PSQVSSSHPT RELRTTGSTS GRQSSSTAAH
 501  GSSDILRATT SSTSKASSWT SESTAQQFSE PQHTQWVETS PSMKTERPPA
 551  STSVAAPITT SVPSVVSGFT TLKTSSTKGI WLEETSADTL IGESTAGPTT
 601  HQFAVPTGIS MTGGSSTRGS QGTTHLLTRA TASSETSADL TLATNGVPVS
 651  VSPAVSKTAA GSSPPGGTKP SYTMVSSVIP ETSSLQSSAF REGTSLGLTP
 701  LNTRHPFSSP EPDSAGHTKI STSIPLLSSA SVLEDKVSAT STFSHHKATS
 751  SITTGTPEIS TKTKPSSAVL SSMTLSNAAT SPERVRNATS PLTHPSPSGE
 801  ETAGSVLTLS TSAETTDSPN IHPTGTLTSE SSESPSTLSL PSVSGVKTTF
 851  SSSTPSTHLF TSGEETEETS NPSVSQPETS VSRVRTTLAS TSVPTPVFPT
 901  MDTWPTRSAQ FSSSHLVSEL RATSSTSVTN STGSALPKIS HLTGTATMSQ
 951  TNRDTFNDSA APQSTTWPET SPRFKTGLPS ATTTVSTSAT SLSATVMVSK
1001  FTSPATSSME ATSIREPSTT ILTTETTNGP GSMAVASTNI PIGKGYITEG
1051  RLDTSHLPIG TTASSETSMD FTMAKESVSM SVSPSQSMDA AGSSTPGRTS
1101  QFVDTFSDDV YHLTSREITI PRDGTSSALT PQMTATHPPS PDPGSARSTW
1151  LGILSSSPSS PTPKVTMSST FSTQRVTTSM IMDTVETSRW NMPNLPSTTS
1201  LTPSNIPTSG AIGKSTLVPL DTPSPATSLE ASEGGLPTLS TYPESTNTPS
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Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)				
1251	IHLGAHASSE	SPSTINLTMA	SVVKPGSYTP	LTFPSIETHI	HVSTARMAYS
1301	SGSSPEMTAP	GETNTGSTWD	PTTYITTTDP	KDTSSAQVST	PHSVRTLRTT
1351	ENHPKTESAT	PAAYSGSPKI	SSSPNLTSPA	TKAWTITDTT	EHSTQLHYTK
1401	LAEKSSGFET	QSAPGPVSVV	IPTSPTIGSS	TLELTSDVPG	EPLVLAPSEQ
1451	TTITLPMATW	LSTSLTEEMA	STDLDISSPS	SPMSTFAIFP	PMSTPSHELS
1501	KSEADTSAIR	NTDSTTLDQH	LGIRSLGRTG	DLTTVPITPL	TTTWTSVIEH
1551	STQAQDTLSA	TMSPTHVTQS	LKDQTSIPAS	ASPSHLTEVY	PELGTQGRSS
1601	SEATTFWKPS	TDTLSREIET	GPTNIQSTPP	MDNTTTGSSS	SGVTLGIAHL
1651	PIGTSSPAET	STNMALERRS	STATVSMAGT	MGLLVTSAPG	RSISQSLGRV
1701	SSVLSESTTE	GVTDSSKGSS	PRLNTQGNTA	LSSSLEPSYA	EGSQMSTSIP
1751	LTSSPTTPDV	EFIGGSTFWT	KEVTTVMTSD	ISKSSARTES	SSATLMSTAL
1801	GSTENTGKEK	LRTASMDLPS	PTPSMEVTPW	ISLTLSNAPN	TTDSLDLSHG
1851	VHTSSAGTLA	TDRSLNTGVT	RASRLENGSD	TSSKSLSMGN	STHTSMTDTE
1901	KSEVSSSIHP	RPETSAPGAE	TTLTSTPGNR	AISLTLPFSS	IPVEEVISTG
1951	ITSGPDINSA	PMTHSPITPP	TIVWTSTGTI	EQSTQPLHAV	SSEKVSVQTQ
2001	STPYVNSVAV	SASPTHENSV	SSGSSTSSPY	SSASLESLDS	TISRRNAITS
2051	WLWDLTTSLP	TTTWPSTSLS	EALSSGHSGV	SNPSSTTTEF	PLFSAASTSA
2101	AKQRNPETET	HGPQNTAAST	LNTDASSVTG	LSETPVGASI	SSEVPLPMAI
2151	TSRSDVSGLT	SESTANPSLG	TASSAGTKLT	RTISLPTSES	LVSFRMNKDP
2201	WTVSIPLGSH	PTTNTETSIP	VNSAGPPGLS	TVASDVIDTP	SDGAESIPTV
2251	SFSPSPDTEV	TTISHFPEKT	THSFRTISSL	THELTSRVTP	IPGDWMSSAM
2301	STKPTGASPS	ITLGERRTIT	SAAPTTSPIV	LTASFTETST	VSLDNETTVK
2351	TSDILDARKT	NELPSDSSSS	SDLINTSIAS	STMDVTKTAS	ISPTSISGMT
2401	ASSSPSLFSS	DRPQVPTSTT	ETNTATSPSV	SSNTYSLDGG	SNVGGTPSTL
2451	PPFTITHPVE	TSSALLAWSR	PVRTFSTMVS	TDTASGENPT	SSNSVVTSVP

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
2501	APGTWASVGS TTDLPAMGFL KTSPAGEAHS LLASTIEPAT AFTPHLSAAV
2551	VTGSSATSEA SLLTTSESKA IHSSPQTPTT PTSGANWETS ATPESLLVVT
2601	ETSDTTLTSK ILVTDTILFS TVSTPPSKFP STGTLSGASF PTLLPDTPAI
2651	PLTATEPTSS LATSFDSTPL VTIASDSLGT VPETTLTMSE TSNGDALVLK
2701	TVSNPDRSIP GITIQGVTES PLHPSSTSPS KIVAPRNTTY EGSITVALST
2751	LPAGTTGSLV FSQSSENSET TALVDSSAGL ERASVMPLTT GSQGMASSGG
2801	IRSGSTHSTG TKTFSSLPLT MNPGEVTAMS EITTNRLTAT QSTAPKGIPV
2851	KPTSAESGLL TPVSASSSPS KAFASLTTAP PSTWGIPQST LTFEFSEVPS
2901	LDTKSASLPT PGQSLNTIPD SDASTASSSL SKSPEKNPRA RMMTSTKAIS
2951	ASSFQSTGFT ETPEGSASPS MAGHEPRVPT SGTGDPRYAS ESMSYPDPSK
3001	ASSAMTSTSL ASKLTTLFST GQAARSGSSS SPISLSTEKE TSFLSPTAST
3051	SRKTSLFLGP SMARQPNILV HLQTSALTLS PTSTLNMSQE EPPELTSSQT
3101	IAEEEGTTAE TQTLTFTPSE TPTSLLPVSS PTEPTARRKS SPETWASSIS
3151	VPAKTSLVET TDGTLVTTIK MSSQAAQGNS TWPAPAEETG TSPAGTSPGS
3201	PEVSTTLKIM SSKEPSISPE IRSTVRNSPW KTPETTVPME TTVEPVTLQS
3251	TALGSGSTSI SHLPTGTTSP TKSPTENMLA TERVSLSPSP PEAWTNLYSG
3301	TPGGTRQSLA TMSSVSLESP TARSITGTGQ QSSPELVSKT TGMEFSMWHG
3351	STGGTTGDTH VSLSTSSNIL EDPVTSPNSV SSLTDKSKHK TETWVSTTAI
3401	PSTVLNNKIM AAEQQTSRSV DEAYSSTSSW SDQTSGSDIT LGASPDVTNT
3451	LYITSTAQTT SLVSLPSGDQ GITSLTNPSG GKTSSASSVT SPSIGLETLR
3501	ANVSAVKSDI APTAGHLSQT SSPAEVSILD VTTAPTPGIS TTITTMGTNS
3551	ISTTTPNPEV GMSTMDSTPA TERRTTSTEH PSTWSSTAAS DSWTVTDMTS
3601	NLKVARSPGT ISTMHTTSFL ASSTELDSMS TPHGRITVIG TSLVTPSSDA
3651	SAVKTETSTS ERTLSPSDTT ASTPISTFSR VQRMSISVPD ILSTSWTPSS
3701	TEAEDVPVSM VPTDHASTKT DPNTPLSTFL FDSLSTLDWD TGRSLSSATA

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
3751	TTSAPQGATT PQELTLETMI SPATSQLPFS IGHITSAVTP AAMARSSGVT
3801	FSRPDPTSKK AEQTSTQLPT TTSAHPGQVP RSAATTLDVI PHTAKTPDAT
3851	FQRQGQTALT TEARATSDSW NEKEKSTPSA PWITEMMNSV SEDTIKEVTS
3901	SSSVLKDPEY AGHKLGIWDD FIPKFGKAAH MRELPLLSPP QDKEAIHPST
3951	NTVETTGWVT SSEHASHSTI PAHSASSKLT SPVVTTSTRE QAIVSMSTTT
4001	WPESTRARTE PNSFLTIELR DVSPYMDTSS TTQTSIISSP GSTAITKGHR
4051	TEITSYKRIS SSFLAQSMRS SDSPSEAITR LSNFPAMTES GGMILAMQTS
4101	PPGATSISAP TLDTSATASW TGTPLATTQR FTYSEKTTLF SKGREDTSQP
4151	SPPCVEETSS SSSVVPIHAT TSPSNILLTS QGHSPSSTPP VTSVFLSETS
4201	GLGKTTDMSR ISLEPGTSLP PNLSSTAGEA LSTYEASRDT KAIHHSADTA
4251	VTNMEATSSE YSPIPGHTKP SKATSPLVTS HIMGDITSST SVFGSSETTE
4301	IETVSSVNQG LQERSTSQVA SSATETSTVI THVSSGDATT HVTKTQATFS
4351	SGTSISSPHQ FITSTNTFTD VSTNPSTSLI MTESSGVTIT TQTGPTGAAT
4401	QGPYLLDTST MPYLTETPLA VTPDFMQSEK TTLISKGPKD VTWTSPPSVA
4451	ETSYPSSLTP FLVTTIPPAT STLQGQHTSS PVSATSVLTS GLVKTTDMLN
4501	TSMEPVTNSP QNLNNPSNEI LATLAATTDI ETIHPSINKA VTNMGTASSA
4551	HVLHSTLPVS SEPSTATSPM VPASSMGDAL ASISIPGSET TDIEGEPTSS
4601	LTAGRKENST LQEMNSTTES NIILSNVSVG AITEATKMEV PSFDATFIPT
4651	PAQSTKFPDI FSVASSRLSN SPPMTISTHM TTTQTGSSGA TSKIPLALDT
4701	STLETSAGTP SVVTEGFAHS KITTAMNNDV KDVSQTNPPF QDEASSPSSQ
4751	APVLVTTLPS SVAFTPQWHS TSSPVSMSSV LTSSLVKTAG KVDTSLETVT
4801	SSPQSMSNTL DDISVTSAAT TDIETTHPSI NTVVTNVGTT GSAFESHSTV
4851	SAYPEPSKVT SPNVTTSTME DTTISRSIPK SSKTTRTETE TTSSLTPKLR
4901	ETSISQEITS STETSTVPYK ELTGATTEVS RTDVTSSSST SFPGPDQSTV
4951	SLDISTETNT RLSTSPIMTE SAEITITTQT GPHGATSQDT FTMDPSNTTP

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)					
5001	QAGIHSAMTH	GFSQLDVTTL	MSRIPQDVSW	TSPPSVDKTS	SPSSFLSSPA
5051	MTTPSLISST	LPEDKLSSPM	TSLLTSGLVK	ITDILRTRLE	PVTSSLPNFS
5101	STSDKILATS	KDSKDTKEIF	PSINTEETNV	KANNSGHESH	SPALADSETP
5151	KATTQMVITT	TVGDPAPSTS	MPVHGSSETT	NIKREPTYFL	TPRLRETSTS
5201	QESSFPTDTS	FLLSKVPTGT	ITEVSSTGVI	SSSKISTPDH	DKSTVPPDTF
5251	TGEIPRVFTS	SIKTKSAEMT	ITTQASPPES	ASHSTLPLDT	STTLSQGGTH
5301	STVSQGFPYS	EVTTLMGMGP	GNVSWMTTPP	VEETSSVSSL	MSSPAMTSPS
5351	PVSSTSPQSI	PSSPLPVTAL	PTSVLVTTTD	VLGTTSPESV	TSSPPNLSSI
5401	THERPATYKD	TAHTEAAMHH	STNTAVTNVG	TSGSGHKSQS	SVLADSETSK
5451	ATPLMSTAST	LGDTSVSTST	PNISQTNQIQ	TEPTASLSPR	LRESSTSEKT
5501	SSTTETNTAF	SYVPTGAITQ	ASRTEISSSR	TSISDLDRST	IAPDISTGMI
5551	TRLFTSPIMT	KSAEMTVTTQ	TTTPGATSQG	ILPWDTSTTL	FQGGTHSTVS
5601	QGFPHSEITT	LRSRTPGDVS	WMTTPPVEET	SSGFSLMSPS	MTSPSPVSST
5651	SPESIPSSPL	PVTALLTSVL	VTTTNVLGTT	SPEPVTSSPP	NLSSPTQERL
5701	TTYKDTAHTE	AMHASMHTNT	AVANVGTSIS	GHESQSSVPA	DSHTSKATSP
5751	MGITFAMGDT	SVYTSTPAFF	ETRIQSESTS	SLIPGLRDTR	TSEEINTVTE
5801	TSTVLSEVPT	TTTTEVSRTE	VITSSRTTIS	GPDHSKMSPY	ISTETITRLS
5851	TFPFVTGSTE	MAITNQTGPI	GTISQATLTL	DTSSTASWEG	THSPVTQRFP
5901	HSEETTTMSR	STKGVSWQSP	PSVEETSSPS	SPVPLPAITS	HSSLYSAVSG
5951	SSPTSALPVT	SLLTSGRRKT	IDMLDTHSEL	VTSSLPSASS	FSGEILTSEA
6001	STNTETIHFS	ENTAETNMGT	TNSMHKLHSS	VSIHSQPSGH	TPPKVTGSMM
6051	EDAIVSTSTP	GSPETKNVDR	DSTSPLTPEL	KEDSTALVMN	STTESNTVFS
6101	SVSLDAATEV	SRAEVTYYDP	TFMPASAQST	KSPDISPEAS	SSHSNSPPLT
6151	ISTHKTIATQ	TGPSGVTSLG	QLTLDTSTIA	TSAGTPSART	QDFVDSETTS
6201	VMNNDLNDVL	KTSPFSAEEA	NSLSSQAPLL	VTTSPSPVTS	TLQEHSTSSL

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)				
6251	VSVTSVPTPT	LAKITDMDTN	LEPVTRSPQN	LRNTLATSEA	TTDTHTMHPS
6301	INTAMANVGT	TSSPNEFYFT	VSPDSDPYKA	TSAVVITSTS	GDSIVSTSMP
6351	RSSAMKKIES	ETTFSLIFRL	RETSTSQKIG	SSSDTSTVFD	KAFTAATTEV
6401	SRTELTSSSR	TSIQGTEKPT	MSPDTSTRSV	TMLSTFAGLT	KSEERTIATQ
6451	TGPHRATSQG	TLTWDTSITT	SQAGTHSAMT	HGFSQLDLST	LTSRVPEYIS
6501	GTSPPSVEKT	SSSSSLLSLP	AITSPSPVPT	TLPESRPSSP	VHLTSLPTSG
6551	LVKTTDMLAS	VASLPPNLGS	TSHKIPTTSE	DIKDTEKMYP	STNIAVTNVG
6601	TTTSEKESYS	SVPAYSEPPK	VTSPMVTSFN	IRDTIVSTSM	PGSSEITRIE
6651	MESTFSLAHG	LKGTSTSQDP	IVSTEKSAVL	HKLTTGATET	SRTEVASSRR
6701	TSIPGPDHST	ESPDISTEVI	PSLPISLGIT	ESSNMTIITR	TGPPLGSTSQ
6751	GTFTLDTPTT	SSRAGTHSMA	TQEFPHSEMT	TVMNKDPEIL	SWTIPPSIEK
6801	TSFSSSLMPS	PAMTSPPVSS	TLPKTIHTTP	SPMTSLLTPS	LVMTTDTLGT
6851	SPEPTTSSPP	NLSSTSHVIL	TTDEDTTAIE	AMHPSTSTAA	TNVETTCSGH
6901	GSQSSVLTDS	EKTKATAPMD	TTSTMGHTTV	STSMSVSSET	TKIKRESTYS
6951	LTPGLRETSI	SQNASFSTDT	SIVLSEVPTG	TTAEVSRTEV	TSSGRTSIPG
7001	PSQSTVLPEI	STRTMTRLFA	SPTMTESAEM	TIPTQTGPSG	STSQDTLTLD
7051	TSTTKSQAKT	HSTLTQRFPH	SEMTTLMSRG	PGDMSWQSSP	SLENPSSLPS
7101	LLSLPATTSP	PPISSTLPVT	ISSSPLPVTS	LLTSSPVTTT	DMLHTSPELV
7151	TSSPPKLSHT	SDERLTTGKD	TTNTEAVHPS	TNTAASNVEI	PSFGHESPSS
7201	ALADSETSKA	TSPMFITSTQ	EDTTVAISTP	HFLETSRIQK	ESISSLSPKL
7251	RETGSSVETS	SAIETSAVLS	EVSIGATTEI	SRTEVTSSSR	TSISGSAEST
7301	MLPEISTTRK	IIKFPTSPIL	AESSEMTIKT	QTSPPGSTSE	STFTLDTSTT
7351	PSLVITHSTM	TQRLPHSEIT	TLVSRGAGDV	PRPSSLPVEE	TSPPSSQLSL
7401	SAMISPSPVS	STLPASSHSS	SASVTSPLTP	GQVKTTEVLD	ASAEPETSSP
7451	PSLSSTSVEI	LATSEVTTDT	EKIHPFPNTA	VTKVGTSSSG	HESPSSVLPD

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)					
7501	SETTKATSAM	GTISIMGDTS	VSTLTPALSN	TRKIQSEPAS	SLTTRLRETS
7551	TSEETSLATE	ANTVLSKVST	GATTEVSRTE	AISFSRTSMS	GPEQSTMSQD
7601	ISIGTIPRIS	ASSVLTESAK	MTITTQTGPS	ESTLESTLNL	NTATTPSWVE
7651	THSIVIQGFP	HPEMTTSMGR	GPGGVSWPSP	PFVKETSPPS	SPLSLPAVTS
7701	PHPVSTTFLA	HIPPSPLPVT	SLLTSGPATT	TDILGTSTEP	GTSSSSSLST
7751	TSHERLTTYK	DTAHTEAVHP	STNTGGTNVA	TTSSGYKSQS	SVLADSSPMC
7801	TTSTMGDTSV	LTSTPAFLET	RRIQTELASS	LTPGLRESSG	SEGTSSGTKM
7851	STVLSKVPTG	ATTEISKEDV	TSIPGPAQST	ISPDTSTRTV	SWFSTSPVMT
7901	ESAEITMNTH	TSPLGATTQG	TSTLDTSSTT	SLTMTHSTIS	QGFSHSQMST
7951	LMRRGPEDVS	WMSPPLLEKT	RPSFSLMSSP	ATTSPSPVSS	TLPESISSSP
8001	LPVTSLLTSG	LAKTTDMLHK	SSEPVTNSPA	NLSSTSVEIL	ATSEVTTDTE
8051	KTHPSSNRTV	TDVGTSSSGH	ESTSFVLADS	QTSKVTSPMV	ITSTMEDTSV
8101	STSTPGFFET	SRIQTEPTSS	LTLGLRKTSS	SEGTSLATEM	STVLSGVPTG
8151	ATAEVSRTEV	TSSSRTSISG	FAQLTVSPET	STETITRLPT	SSIMTESAEM
8201	MIKTQTDPPG	STPESTHTVD	ISTTPNWVET	HSTVTQRFSH	SEMTTLVSRS
8251	PGDMLWPSQS	SVEETSSASS	LLSLPATTSP	SPVSSTLVED	FPSASLPVTS
8301	LLTPGLVITT	DRMGISREPG	TSSTSNLSST	SHERLTTLED	TVDTEAMQPS
8351	THTAVTNVRT	SISGHESQSS	VLSDSETPKA	TSSMGTTYTM	GETSVSISTS
8401	DFFETSRVQI	EPTSSLTSGL	RETSSSERIS	SATEGSTVLS	EVPSGATTEV
8451	SRTEVISSRG	TSMSGPDQFT	ISPDISTEAI	TRLSTSPIMT	ESAESAITIE
8501	TGSPGATSEG	TLTLDTSTTT	FWSGTHSTAS	PGFSHSEMTT	LMSRTPGDVP
8551	WPSLPSVEEA	SSVSSSLSSP	AMTSTSFFSA	LPESISSSPH	PVTALLTLGP
8601	VKTTDMLRTS	SEPETSSPPN	LSSTSAEILA	TSEVTKDREK	IHPSSNTPVV
8651	NVGTVIYKHL	SPSSVLADLV	TTKPTSPMAT	TSTLGNTSVS	TSTPAFPETM
8701	MTQPTSSLTS	GLREISTSQE	TSSATERSAS	LSGMPTGATT	KVSRTEALSL

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
8751	GRTSTPGPAQ STISPEISTE TITRISTPLT TTGSAEMTIT PKTGHSGASS
8801	QGTFTLDTSS RASWPGTHSA ATHRSPHSGM TTPMSRGPED VSWPSRPSVE
8851	KTSPPSSLVS LSAVTSPSPL YSTPSESSHS SPLRVTSLFT PVMMKTTDML
8901	DTSLEPVTTS PPSMNITSDE SLATSKATME TEAIQLSENT AVTQMGTISA
8951	RQEFYSSYPG LPEPSKVTSP VVTSSTIKDI VSTTIPASSE ITRIEMESTS
9001	TLTPTPRETS TSQEIHSATK PSTVPYKALT SATIEDSMTQ VMSSSRGPSP
9051	DQSTMSQDIS TEVITRLSTS PIKAESTEMT ITTQTGSPGA TSRGTLTLDT
9101	STTFMSGTHS TASQGFSHSQ MTALMSRTPG DVPWLSHPSV EEASSASFSL
9151	SSPVMTSSSP VSSTLPDSIH SSSLPVTSLL TSGLVKTTEL LGTSSEPETS
9201	SPPNLSSTSA EILATTEVTT DTEKLEMTNV VTSGYTHESP SSVLADSVTT
9251	KATSSMGITY PTGDTNVLTS TPAFSDTSRI QTKSKLSLTP GLMETSISEE
9301	TSSATEKSTV LSSVPTGATT EVSRTEAISS SRTSIPGPAQ STMSSDTSME
9351	TITRISTPLT RKESTDMAIT PKTGPSGATS QGTFTLDSSS TASWPGTHSA
9401	TTQRFPQSVV TTPMSRGPED VSWPSPLSVE KNSPPSSLVS SSSVTSPSPL
9451	YSTPSGSSHS SPVPVTSLFT SIMMKATDML DASLEPETTS APNMNITSDE
9501	SLATSKATTE TEAIHVFENT AASHVETTSA TEELYSSSPG FSEPTKVISP
9551	VVTSSSIRDN MVSTTMPGSS GITRIEIESM SSLTPGLRET RTSQDITSST
9601	ETSTVLYKMS SGATPEVSRT EVMPSSRTSI PGPAQSTMSL DISDEVVTRL
9651	STSPIMTESA EITITTQTGY SLATSQVTLP LGTSMTFLSG THSTMSQGLS
9701	HSEMTNLMSR GPESLSWTSP RFVETTRSSS SLTSLPLTTS LSPVSSTLLD
9751	SSPSSPLPVT SLILPGLVKT TEVLDTSSEP KTSSSPNLSS TSVEIPATSE
9801	IMTDTEKIHP SSNTAVAKVR TSSSVHESHS SVLADSETTI TIPSMGITSA
9851	VDDTTVFTSN PAFSETRRIP TEPTFSLTPG FRETSTSEET TSITETSAVL
9901	YGVPTSATTE VSMTEIMSSN RTHIPDSDQS TMSPDIITEV ITRLSSSSMM
9951	SESTQMTITT QKSSPGATAQ STLTLATTTA PLARTHSTVP PRFLHSEMTT

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
10001	LMSRSPENPS WKSSPFVEKT SSSSSLLSLP VTTSPSVSST LPQSIPSSSF
10051	SVTSLLTPGM VKTTDTSTEP GTSLSPNLSG TSVEILAASE VTTDTEKIHP
10101	SSSMAVTNVG TTSSGHELYS SVSIHSEPSK ATYPVGTPSS MAETSISTSM
10151	PANFETTGFE AEPFSHLTSG FRKTNMSLDT SSVTPTNTPS SPGSTHLLQS
10201	SKTDFTSSAK TSSPDWPPAS QYTEIPVDII TPFNASPSIT ESTGITSFPE
10251	SRFTMSVTES THHLSTDLLP SAETISTGTV MPSLSEAMTS FATTGVPRAI
10301	SGSGSPFSRT ESGPGDATLS TIAESLPSST PVPFSSSTFT TTDSSTIPAL
10351	HEITSSSATP YRVDTSLGTE SSTTEGRLVM VSTLDTSSQP GRTSSTPILD
10401	TRMTESVELG TVTSAYQVPS LSTRLTRTDG IMEHITKIPN EAAHRGTIRP
10451	VKGPQTSTSP ASPKGLHTGG TKRMETTTTA LKTTTTALKT TSRATLTTSV
10501	YTPTLGTLTP LNASRQMAST ILTEMMITTP YVFPDVPETT SSLATSLGAE
10551	TSTALPRTTP SVLNRESETT ASLVSRSGAE RSPVIQTLDV SSSEPDTTAS
10601	WVIHPAETIP TVSKTTPNFF HSELDTVSST ATSHGADVSS AIPTNISPSE
10651	LDALTPLVTI SGTDTSTTFP TLTKSPHETE TRTTWLTHPA ETSSTIPRTI
10701	PNFSHHESDA TPSIATSPGA ETSSAIPIMT VSPGAEDLVT SQVTSSGTDR
10751	NMTIPTLTLS PGEPKTIASL VTHPEAQTSS AIPTSTISPA VSRLVTSMVT
10801	SLAAKTSTTN RALTNSPGEP ATTVSLVTHP AQTSPTVPWT TSIFFHSKSD
10851	TTPSMTTSHG AESSSAVPTP TVSTEVPGVV TPLVTSSRAV ISTTIPILTL
10901	SPGEPETTPS MATSHGEEAS SAIPTPTVSP GVPGVVTSLV TSSRAVTSTT
10951	IPILTFSLGE PETTPSMATS HGTEAGSAVP TVLPEVPGMV TSLVASSRAV
11001	TSTTLPTLTL SPGEPETTPS MATSHGAEAS STVPTVSPEV PGVVTSLVTS
11051	SSGVNSTSIP TLILSPGELE TTPSMATSHG AEASSAVPTP TVSPGVSGVV
11101	TPLVTSSRAV TSTTIPILTL SSSEPETTPS MATSHGVEAS SAVLTVSPEV
11151	PGMVTSLVTS SRAVTSTTIP TLTISSDEPE TTTSLVTHSE AKMISAIPTL
11201	AVSPTVQGLV TSLVTSSGSE TSAFSNLTVA SSQPETIDSW VAHPGTEASS

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
11251	VVPTLTVSTG EPFTNISLVT HPAESSSTLP RTTSRFSHSE LDTMPSTVTS
11301	PEAESSSAIS TTISPGIPGV LTSLVTSSGR DISATFPTVP ESPHESEATA
11351	SWVTHPAVTS TTVPRTTPNY SHSEPDTTPS IATSPGAEAT SDFPTITVSP
11401	DVPDMVTSQV TSSGTDTSIT IPTLTLSSGE PETTTSFITY SETHTSSAIP
11451	TLPVSPGASK MLTSLVISSG TDSTTTFPTL TETPYEPETT AIQLIHPAET
11501	NTMVPRTTPK FSHSKSDTTL PVAITSPGPE ASSAVSTTTI SPDMSDLVTS
11551	LVPSSGTDTS TTFPTLSETP YEPETTATWL THPAETSTTV SGTIPNFSHR
11601	GSDTAPSMVT SPGVDTRSGV PTTTIPPSIP GVVTSQVTSS ATDTSTAIPT
11651	LTPSPGEPET TASSATHPGT QTGFTVPIRT VPSSEPDTMA SWVTHPPQTS
11701	TPVSRTTSSF SHSSPDATPV MATSPRTEAS SAVLTTISPG APEMVTSQIT
11751	SSGAATSTTV PTLTHSPGMP ETTALLSTHP RTETSKTFPA STVFPQVSET
11801	TASLTIRPGA ETSTALPTQT TSSLFTLLVT GTSRVDLSPT ASPGVSAKTA
11851	PLSTHPGTET STMIPTSTLS LGLLETTGLL ATSSSAETST STLTLTVSPA
11901	VSGLSSASIT TDKPQTVTSW NTETSPSVTS VGPPEFSRTV TGTTMTLIPS
11951	EMPTPPKTSH GEGVSPTTIL RTTMVEATNL ATTGSSPTVA KTTTTFNTLA
12001	GSLFTPLTTP GMSTLASESV TSRTSYNHRS WISTTSSYNR RYWTPATSTP
12051	VTSTFSPGIS TSSIPSSTAA TVPFMVPFTL NFTITNLQYE EDMRHPGSRK
12101	FNATERELQG LLKPLFRNSS LEYLYSGCRL ASLRPEKDSS AMAVDAICTH
12151	RPDPEDLGLD RERLYWELSN LTNGIQELGP YTLDRNSLYV NGFTHRSSMP
12201	TTSTPGTSTV DVGTSGTPSS SPSPTAAGPL LMPFTLNFTI TNLQYEEDMR
12251	RTGSRKFNTM ESVLQGLLKP LFKNTSVGPL YSGCRLTLLR PEKDGAATGV
12301	DAICTHRLDP KSPGLNREQL YWELSKLTND IEELGPYTLD RNSLYVNGFT
12351	HQSSVSTTST PGTSTVDLRT SGTPSSLSSP TIMAAGPLLV PFTLNFTITN
12401	LQYGEDMGHP GSRKFNTTER VLQGLLGPIF KNTSVGPLYS GCRLTSLRSE
12451	KDGAATGVDA ICIHHLDPKS PGLNRERLYW ELSQLTNGIK ELGPYTLDRN

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
12501	SLYVNGFTHR TSVPTSSTPG TSTVDLGTSG TPFSLPSPAT AGPLLVLFTL
12551	NFTITNLKYE EDMHRPGSRK FNTTERVLQT LLGPMFKNTS VGLLYSGCRL
12601	TLLRSEKDGA ATGVDAICTH RLDPKSPGLD REQLYWELSQ LTNGIKELGP
12651	YTLDRNSLYV NGFTHWIPVP TSSTPGTSTV DLGSGTPSSL PSPTAAGPLL
12701	VPFTLNFTIT NLQYEEDMHH PGSRKFNTTE RVLQGLLGPM FKNTSVGLLY
12751	SGCRLTLLRS EKDGAATGVD AICTHRLDPK SPGVDREQLY WELSQLTNGI
12801	KELGPYTLDR NSLYVNGFTH QTSAPNTSTP GTSTVDLGTS GTPSSLPSPT
12851	SAGPLLVPFT LNFTITNLQY EEDMRHPGSR KFNTTERVLQ GLLKPLFKST
12901	SVGPLYSGCR LTLLRSEKDG AATGVDAICT HRLDPKSPGV DREQLYWELS
12951	QLTNGIKELG PYTLDRNSLY VNGFTHQTSA PNTSTPGTST VDLGTSGTPS
13001	SLPSPTSAGP LLVPFTLNFT ITNLQYEEDM HHPGSRKFNT TERVLQGLLG
13051	PMFKNTSVGL LYSGCRLTLL RPEKNGAATG MDAICSHRLD PKSPGLNREQ
13101	LYWELSQLTH GIKELGPYTL DRNSLYVNGF THRSSVAPTS TPGTSTVDLG
13151	TSGTPSSLPS PTTAVPLLVP FTLNFTITNL QYGEDMRHPG SRKFNTTERV
13201	LQGLLGPLFK NSSVGPLYSG CRLISLRSEK DGAATGVDAI CTHHLNPQSP
13251	GLDREQLYWQ LSQMTNGIKE LGPYTLDRNS LYVNGFTHRS SGLTTSTPWT
13301	STVDLGTSGT PSPVPSPTTA GPLLVPFTLN FTITNLQYEE DMHRPGSRKF
13351	NATERVLQGL LSPIFKNSSV GPLYSGCRLT SLRPEKDGAA TGMDAVCLYH
13401	PNPKRPGLDR EQLYWELSQL THNITELGPY SLDRDSLYVN GFTHQNSVPT
13451	TSTPGTSTVY WATTGTPSSF PGHTEPGPLL IPFTFNFTIT NLHYEENMQH
13501	PGSRKFNTTE RVLQGLLKPL FKNTSVGPLY SGCRLTSLRP EKDGAATGMD
13551	AVCLYHPNPK RPGLDREQLY CELSQLTHNI TELGPYSLDR DSLYVNGFTH
13601	QNSVPTTSTP GTSTVYWATT GTPSSFPGHT EPGPLLIPFT FNFTITNLHY
13651	EENMQHPGSR KFNTTERVLQ GLLKPLFKNT SVGPLYSGCR LTLLRPEKHE
13701	AATGVDTICT HRVDPIGPGL DRERLYWELS QLTNSITELG PYTLDRDSLY

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
13751	VNGFNPRSSV PTTSTPGTST VHLATSGTPS SLPGHTAPVP LLIPFTLNFT
13801	ITNLHYEENM QHPGSRKFNT TERVLQGLLK PLFKNTSVGP LYSGCRLTLL
13851	RPEKHEAATG VDTICTHRVD PIGPGLDREX LYWELSXLTX XIXELGPYXL
13901	DRXSLYVNGF XXXXXXXXTS TPGTSXVXLX TSGTPXXXPX XTSAGPLLVP
13951	FTLNFTITNL QYEEDMHHPG SRKFNTTERV LQGLLGPMFK NTSVGLLYSG
14001	CRLTLLRPEK NGAATGMDAI CSHRLDPKSP GLDREQLYWE LSQLTHGIKE
14051	LGPYTLDRNS LYVNGFTHRS SVAPTSTPGT STVDLGTSGT PSSLPSPTTA
14101	VPLLVPFTLN FTITNLQYGE DMRHPGSRKF NTTERVLQGL LGPLFKNSSV
14151	GPLYSGCRLI SLRSEKDGAA TGVDAICTHH LNPQSPGLDR EQLYWQLSQM
14201	TNGIKELGPY TLDRNSLYVN GFTHRSSGLT TSTPWTSTVD LGTSGTPSPV
14251	PSPTTAGPLL VPFTLNFTIT NLQYEEDMHR PGSRKFNATE RVLQGLLSPI
14301	FKNSSVGPLY SGCRLTSLRP EKDGAATGMD AVCLYHPNPK RPGLDREQLY
14351	WELSQLTHNI TELGPYSLDR DSLYVNGFTH QSSMTTTRTP DTSTMHLATS
14401	RTPASLSGPT TASPLLVLFT INCTITNLQY EEDMRRTGSR KFNTMESVLQ
14451	GLLKPLFKNT SVGPLYSGCR LTLLRPKKDG AATGVDAICT HRLDPKSPGL
14501	NREQLYWELS KLTNDIEELG PYTLDRNSLY VNGFTHQSSV STTSTPGTST
14551	VDLRTSGTPS SLSSPTIMXX XPLLXPFTLN FTITNLXYEE XMXXPGSRKF
14601	NTTERVLQGL LRPLFKNTSV SSLYSGCRLT LLRPEKDGAA TRVDAACTYR
14651	PDPKSPGLDR EQLYWELSQL THSITELGPY TLDRVSLYVN GFNPRSSVPT
14701	TSTPGTSTVH LATSGTPSSL PGHTXXXPLL XPFTLNFTIT NLXYEEXMXX
14751	PGSRKFNTTE RVLQGLLKPL FRNSSLEYLY SGCRLASLRP EKDSSAMAVD
14801	AICTHRPDPE DLGLDRERLY WELSNLTNGI QELGPYTLDR NSLYVNGFTH
14851	RSSFLTTSTP WTSTVDLGTS GTPSPVPSPT TAGPLLVPFT LNFTITNLQY
14901	EEDMHRPGSR RFNTTERVLQ GLLTPLFKNT SVGPLYSGCR LTLLRPEKQE
14951	AATGVDTICT HRVDPIGPGL DRERLYWELS QLTNSITELG PYTLDRDSLY

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
15001	VNGFNPWSSV PTTSTPGTST VHLATSGTPS SLPGHTAPVP LLIPFTLNFT
15051	ITDLHYEENM QHPGSRKFNT TERVLQGLLK PLFKSTSVGP LYSGCRLTLL
15101	RPEKHGAATG VDAICTLRLD PTGPGLDRER LYWELSQLTN SVTELGPYTL
15151	DRDSLYVNGF THRSSVPTTS IPGTSAVHLE TSGTPASLPG HTAPGPLLVP
15201	FTLNFTITNL QYEEDMRHPG SRKFSTTERV LQGLLKPLFK NTSVSSLYSG
15251	CRLTLLRPEK DGAATRVDAV CTHRPDPKSP GLDRERLYWK LSQLTHGITE
15301	LGPYTLDRHS LYVNGFTHQS SMTTTRTPDT STMHLATSRT PASLSGPTTA
15351	SPLLVLFTIN FTITNQRYEE NMHHPGSRKF NTTERVLQGL LRPVFKNTSV
15401	GPLYSGCRLT LLRPKKDGAA TKVDAICTYR PDPKSPGLDR EQLYWELSQL
15451	THSITELGPY TQDRDSLYVN GFTHRSSVPT TSIPGTSAVH LETSGTPASL
15501	PGHTAPGPLL VPFTLNFTIT NLQYEEDMRH PGSRKFNTTE RVLQGLLKPL
15551	FKSTSVGPLY SGCRLTLLRP EKRGAATGVD TICTHRLDPL NPGLDREQLY
15601	WELSKLTRGI IELGPYLLDR GSLYVNGFTH RTSVPTTSTP GTSTVDLGTS
15651	GTPFSLPSPA XXXPLLXPFT LNFTITNLXY EEXMXXPGSR KFNTTERVLQ
15701	TLLGPMFKNT SVGLLYSGCR LTLLRSEKDG AATGVDAICT HRLDPKSPGV
15751	DREQLYWELS QLTNGIKELG PYTLDRNSLY VNGFTHWIPV PTSSTPGTST
15801	VDLGSGTPSL PSSPTTAGPL LVPFTLNFTI TNLKYEEDMH CPGSRKFNTT
15851	ERVLQSLLGP MFKNTSVGPL YSGCRLTLLR SEKDGAATGV DAICTHRLDP
15901	KSPGVDREQL YWELSQLTNG IKELGPYTLD RNSLYVNGFT HQTSAPNTST
15951	PGTSTVDLGT SGTPSSLPSP TXXXPLLXPF TLNFTITNLX YEEXMXXPGS
16001	RKFNTTERVL QGLLXPXFKX TSVGXLYSGC RLTLLRXEKX XAATXVDXXC
16051	XXXXDPXXPG LDREXLYWEL SXLTXXIXEL GPYXLDRXSL YVNGFTHWIP
16101	VPTSSTPGTS TVDLGSGTPS SLPSPTTAGP LLVPFTLNFT ITNLKYEEDM
16151	HCPGSRKFNT TERVLQSLLG PMFKNTSVGP LYSGCRLTSL RSEKDGAATG
16201	VDAICTHRVD PKSPGVDREQ LYWELSQLTN GIKELGPYTL DRNSLYVNGF

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
16251	THQTSAPNTS TPGTSTVDLG TSGTPSSLPS PTSAGPLLVP FTLNFTITNL
16301	QYEEDMHHPG SRKFNTTERV LQGLLGPMFK NTSVGLLYSG CRLTLLRPEK
16351	NGAATGMDAI CTHRLDPKSP GLDREXLYWE LSXLTXXIXE LGPYXLDRXS
16401	LYVNGFXXXX XXXXTSTPGT SXVXLXTSGT PXXXPXXTXX XPLLXPFTLN
16451	FTITNLXYEE XMXXPGSRKF NTTERVLQGL LKPLFRNSSL EYLYSGCRLA
16501	SLRPEKDSSA MAVDAICTHR PDPEDLGLDR ERLYWELSNL TNGIQELGPY
16551	TLDRNSLYVN GFTHRSSMPT TSTPGTSTVD VGTSGTPSSS PSPTTAGPLL
16601	IPFTLNFTIT NLQYGEDMGH PGSRKFNTTE RVLQGLLGPI FKNTSVGPLY
16651	SGCRLTSLRS EKDGAATGVD AICIHHLDPK SPGLNRERLY WELSQLTNGI
16701	KELGPYTLDR NSLYVNGFTH RTSVPTTSTP GTSTVDLGTS GTPFSLPSPA
16751	TAGPLLVLFT LNFTITNLKY EEDMHRPGSR KFNTTERVLQ TLLGPMFKNT
16801	SVGLLYSGCR LTLLRSEKDG AATGVDAICT HRLDPKSPGL DREXLYWELS
16851	XLTXXIXELG PYXLDRXSLY VNGFXXXXXX XXTSTPGTSX VXLXTSGTPX
16901	XXPXXTXXXP LLXPFTLNFT ITNLXYEEXM XXPGSRKFNT TERVLQGLLR
16951	PVFKNTSVGP LYSGCRLTLL RPKKDGAATK VDAICTYRPD PKSPGLDREQ
17001	LYWELSQLTH SITELGPYTQ DRDSLYVNGF THRSSVPTTS IPGTSAVHLE
17051	TTGTPSSFPG HTEPGPLLIP FTFNFTITNL RYEENMQHPG SRKFNTTERV
17101	LQGLLTPLFK NTSVGPLYSG CRLTLLRPEK QEAATGVDTI CTHRVDPIGP
17151	GLDRERLYWE LSQLTNSITE LGPYTLDRDS LYVDGFNPWS SVPTTSTPGT
17201	STVHLATSGT PSPLPGHTAP VPLLIPFTLN FTITDLHYEE NMQHPGSRKF
17251	NTTERVLQGL LKPLFKSTSV GPLYSGCRLT LLRPEKHGAA TGVDAICTLR
17301	LDPTGPGLDR ERLYWELSQL TNSITELGPY TLDRDSLYVN GFNPWSSVPT
17351	TSTPGTSTVH LATSGTPSSL PGHTTAGPLL VPFTLNFTIT NLKYEEDMHC
17401	PGSRKFNTTE RVLQSLHGPM FKNTSVGPLY SGCRLTLLRS EKDGAATGVD
17451	AICTHRLDPK SPGLDREXLY WELSXLTXXI XELGPYXLDR XSLYVNGFXX

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)				
17501	XXXXXXTSTP	GTSXVXLXTS	GTPXXXPXXT	XXXPLLXPFT	LNFTITNLXY
17551	EEXMXXPGSR	KFNTTERVLQ	GLLXPXFKXT	SVGXLYSGCR	LTLLRXEKXX
17601	AATXVDXXCX	XXXDPXXPGL	DREXLYWELS	XLTNSITELG	PYTLDRDSLY
17651	VNGFTHRSSM	PTTSIPGTSA	VHLETSGTPA	SLPGHTAPGP	LLVPFTLNFT
17701	ITNLQYEEDM	RHPGSRKFNT	TERVLQGLLK	PLFKSTSVGP	LYSGCRLTLL
17751	RPEKRGAATG	VDTICTHRLD	PLNPGLDREX	LYWELSXLTX	XIXELGPYXL
17801	DRXSLYVNGF	XXXXXXXXTS	TPGTSXVXLX	TSGTPXXXPX	XTXXXPLLXP
17851	FTLNFTITNL	XYEEXMXXPG	SRKFNTTERV	LQGLLXPXFK	XTSVGXLYSG
17901	CRLTLLRXEK	XXAATXVDXX	CXXXXDPXXP	GLDREXLYWE	LSXLTXXIXE
17951	LGPYXLDRXS	LYVNGFHPRS	SVPTTSTPGT	STVHLATSGT	PSSLPGHTAP
18001	VPLLIPFTLN	FTITNLHYEE	NMQHPGSRKF	NTTERVLQGL	LGPMFKNTSV
18051	GLLYSGCRLT	LLRPEKNGAA	TGMDAICSHR	LDPKSPGLDR	EXLYWELSXL
18101	TXXIXELGPY	XLDRXSLYVN	GFXXXXXXXX	TSTPGTSXVX	LXTSGTPXXX
18151	PXXTXXXPLL	XPFTLNFTIT	NLXYEEXMXX	PGSRKFNTTE	RVLQGLLXPX
18201	FKXTSVGXLY	SGCRLTLLRX	EKXXAATXVD	XXCXXXXDPX	XPGLDREXLY
18251	WELSXLTXXI	XELGPYXLDR	XSLYVNGFTH	QNSVPTTSTP	GTSTVYWATT
18301	GTPSSFPGHT	EPGPLLIPFT	FNFTITNLHY	EENMQHPGSR	KFNTTERVLQ
18351	GLLTPLFKNT	SVGPLYSGCR	LTLLRPEKQE	AATGVDTICT	HRVDPIGPGL
18401	DREXLYWELS	XLTXXIXELG	PYXLDRXSLY	VNGFXXXXXX	XXTSTPGTSX
18451	VXLXTSGTPX	XXPXXTXXXP	LLXPFTLNFT	ITNLXYEEXM	XXPGSRKFNT
18501	TERVLQGLLX	PXFKXTSVGX	LYSGCRLTLL	RXEKXXAATX	VDXXCXXXXD
18551	PXXPGLDREX	LYWELSXLTX	XIXELGPYXL	DRXSLYVNGF	THRSSVPTTS
18601	SPGTSTVHLA	TSGTPSSLPG	HTAPVPLLIP	FTLNFTITNL	HYEENMQHPG
18651	SRKFNTTERV	LQGLLKPLFK	STSVGPLYSG	CRLTLLRPEK	HGAATGVDAI
18701	CTLRLDPTGP	GLDREXLYWE	LSXLTXXIXE	LGPYXLDRXS	LYVNGFXXXX

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
18751	XXXXTSTPGT SXVXLXTSGT PXXXPXXTXX XPLLXPFTLN FTITNLXYEE
18801	XMXXPGSRKF NTTERVLQGL LXPXFKXTSV GXLYSGCRLT LLRXEKXXAA
18851	TXVDXXCXXX XDPXXPGLDR EXLYWELSXL TXXIXELGPY XLDRXSLYVN
18901	GFTHRTSVPT TSTPGTSTVH LATSGTPSSL PGHTAPVPLL IPFTLNFTIT
18951	NLQYEEDMHR PGSRKFNTTE RVLQGLLSPI FKNSSVGPLY SGCRLTSLRP
19001	EKDGAATGMD AVCLYHPNPK RPGLDREQLY CELSQLTHNI TELGPYSLDR
19051	DSLYVNGFTH QNSVPTTSTP GTSTVYWATT GTPSSFPGHT XXXPLLXPFT
19101	LNFTITNLXY EEXMXXPGSR KFNTTERVLQ GLLXPXFKXT SVGXLYSGCR
19151	LTLLRXEKXX AATXVDXXCX XXXDPXXPGL DREXLYWELS XLTXXIXELG
19201	PYXLDRXSLY VNGFTHWSSG LTTSTPWTST VDLGTSGTPS PVPSPTTAGP
19251	LLVPFTLNFT ITNLQYEEDM HRPGSRKFNA TERVLQGLLS PIFKNTSVGP
19301	LYSGCRLTLL RPEKQEAATG VDTICTHRVD PIGPGLDREX LYWELSXLTX
19351	XIXELGPYXL DRXSLYVNGF XXXXXXXXTS TPGTSXVXLX TSGTPXXXPX
19401	XTXXXPLLXP FTLNFTITNL XYEEXMXXPG SRKFNTTERV LQGLLXPXFK
19451	XTSVGXLYSG CRLTLLRXEK XXAATXVDXX CXXXXDPXXP GLDREXLYWE
19501	LSXLTXXIXE LGPYXLDRXS LYVNGFTHRS FGLTTSTPWT STVDLGTSGT
19551	PSPVPSPTTA GPLLVPFTLN FTITNLQYEE DMHRPGSRKF NTTERVLQGL
19601	LTPLFRNTSV SSLYSGCRLT LLRPEKDGAA TRVDAVCTHR PDPKSPGLDR
19651	EXLYWELSXL TXXIXELGPY XLDRXSLYVN GFXXXXXXXX TSTPGTSXVX
19701	LXTSGTPXXX PXXTXXXPLL XPFTLNFTIT NLXYEEXMXX PGSRKFNTTE
19751	RVLQGLLXPX FKXTSVGXLY SGCRLTLLRX EKXXAATXVD XXCXXXXDPX
19801	XPGLDREXLY WELSXLTXXI XELGPYXLDR XSLYVNGFTH WIPVPTSSTP
19851	GTSTVDLGSG TPSSLPSPTT AGPLLVPFTL NFTITNLQYG EDMGHPGSRK
19901	FNTTERVLQG LLGPIFKNTS VGPLYSGCRL TSLRSEKDGA ATGVDAICIH
19951	HLDPKSPGLD REXLYWELSX LTXXIXELGP YXLDRXSLYV NGFXXXXXXX

Table 5 (continued)

Human Protein of CA125 Molecule (SEQ ID NO: 5)	
20001	XTSTPGTSXV XLXTSGTPXX XPXXTXXXPL LXPFTLNFTI TNLXYEEXMX
20051	XPGSRKFNTT ERVLQGLLXP XFKXTSVGXL YSGCRLTLLR XEKXXAATXV
20101	DXXCXXXXDP XXPGLDREXL YWELSXLTXX IXELGPYXLD RXSLYVNGFT
20151	HQTFAPNTST PGTSTVDLGT SGTPSSLPSP TSAGPLLVPF TLNFTITNLQ
20201	YEEDMHHPGS RKFNTTERVL QGLLGPMFKN TSVGLLYSGC RLTLLRPEKN
20251	GAATRVDAVC THRPDPKSPG LDREXLYWEL SXLTXXIXEL GPYXLDRXSL
20301	YVNGFXXXXX XXXTSTPGTS XVXLXTSGTP XXXPXXTAPV PLLIPFTLNF
20351	TITNLHYEEN MQHPGSRKFN TTERVLQGLL RPLFKSTSVG PLYSGCRLTL
20401	LRPEKHGAAT GVDAICTLRL DPTGPGLDRE RLYWELSQLT NSVTELGPYT
20451	LDRDSLYVNG FTQRSSVPTT SIPGTSAVHL ETSGTPASLP GHTAPGPLLV
20501	PFTLNFTITN LQYEVDMRHP GSRKFNTTER VLQGLLKPLF KSTSVGPLYS
20551	GCRLTLLRPE KRGAATGVDT ICTHRLDPLN PGLDREQLYW ELSKLTRGII
20601	ELGPYLLDRG SLYVNGFTHR NFVPITSTPG TSTVHLGTSE TPSSLPRPIV
20651	PGPLLVPFTL NFTITNLQYE EAMRHPGSRK FNTTERVLQG LLRPLFKNTS
20701	IGPLYSSCRL TLLRPEKDKA ATRVDAICTH HPDPQSPGLN REQLYWELSQ
20751	LTHGITELGP YTLDRDSLYV DGFTHWSPIP TTSTPGTSIV NLGTSGIPPS
20801	LPETTXXXPL LXPFTLNFTI TNLXYEEXMX XPGSRKFNTT ERVLQGLLKP
20851	LFKSTSVGPL YSGCRLTLLR PEKDGVATRV DAICTHRPDP KIPGLDRQQL
20901	YWELSQLTHS ITELGPYTLD RDSLYVNGFT QRSSVPTTST PGTFTVQPET
20951	SETPSSLPGP TATGPVLLPF TLNFTITNLQ YEEDMHRPGS RKFNTTERVL
21001	QGLLMPLFKN TSVSSLYSGC RLTLLRPEKD GAATRVDAVC THRPDPKSPG
21051	LDRERLYWKL SQLTHGITEL GPYTLDRHSL YVNGFTHQSS MTTTRTPDTS
21101	TMHLATSRTP ASLSGPTTAS PLLVLFTINF TITNLRYEEN MHHPGSRKFN
21151	TTERVLQGLL RPVFKNTSVG PLYSGCRLTL LRPKKDGAAT KVDAICTYRP
21201	DPKSPGLDRE QLYWELSQLT HSITELGPYT QDRDSLYNVG FTQRSSVPTT

Table 5 (continued)

Human Protein of CA125 Molecule
(SEQ ID NO: 5)

21251 SVPGTPTVDL GTSGTPVSKP GPSAASPLLV LFTLNGTITN LRYEENMQHP

21301 GSRKFNTTER VLQGLLRSLF KSTSVGPLYS GCRLTLLRPE KDGTATGVDA

21351 ICTHHPDPKS PRLDREQLYW ELSQLTHNIT ELGHYALDND SLFVNGFTHR

21401 SSVSTTSTPG TPTVYLGASK TPASIFGPSA ASHLLILFTL NFTITNLRYE

21451 ENMWPGSRKF NTTERVLQGL LRPLFKNTSV GPLYSGSRLT LLRPEKDGEA

21501 TGVDAICTHR PDPTGPGLDR EQLYLELSQL THSITELGPY TLDRDSLYVN

21551 GFTHRSSVPT TSTGVVSEEP FTLNFTINNL RYMADMGQPG SLKFNITDNV

21601 MKHLLSPLFQ RSSLGARYTG CRVIALRSVK NGAETRVDLL CTYLQPLSGP

21651 GLPIKQVFHE LSQQTHGITR LGPYSLDKDS LYLNGYNEPG LDEPPTTPKP

21701 ATTFLPPLSE ATTAMGYHLK TLTLNFTISN LQYSPDMGKG SATFNSTEGV

21751 LQHLLRPLFQ KSSMGPFYLG CQLISLRPEK DGAATGVDTT CTYHPDPVGP

21801 GLDIQQLYWE LSQLTHGVTQ LGFYVLDRDS LFINGYAPQN LSIRGEYQIN

21851 FHIVNWNLSN PDPTSSEYIT LLRDIQDKVT TLYKGSQLHD TFRFCLVTNL

21901 TMDSVLVTVK ALFSSNLDPS LVEQVFLDKT LNASFHWLGS TYQLVDIHVT

21951 EMESSVYQPT SSSSTQHFYL NFTITNLPYS QDKAQPGTTN YQRNKRNIED

22001 ALNQLFRNSS IKSYFSDCQV STFRSVPNRH HTGVDSLCNF SPLARRVDRV

22051 AIYEEFLRMT RNGTQLQNFT LDRSSVLVDG YSPNRNEPLT GNSDLPFWAV

22101 ILIGLAGLLG LITCLICGVL VTTRRRKKEG EYNVQQQCPG YYQSHLDLED

22151 LQ